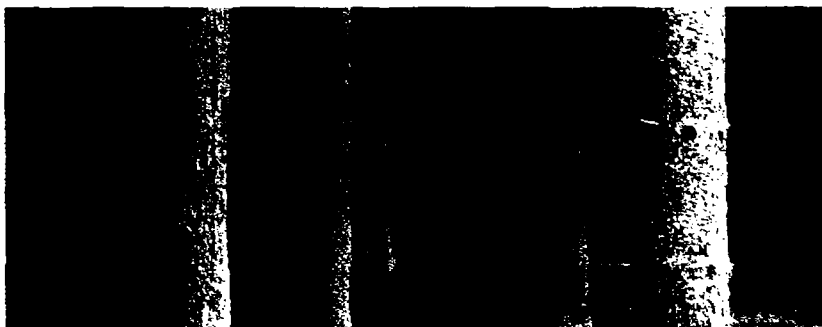


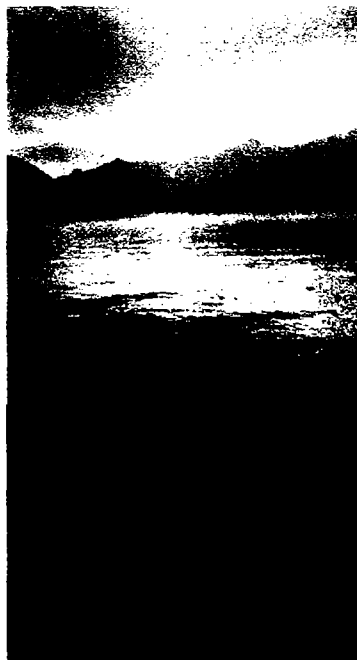
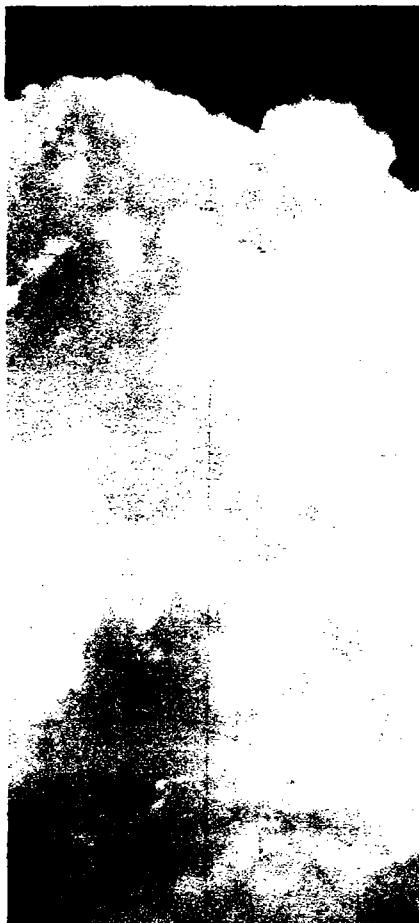
K11
12/01

Report



Construction Completion Report

Riverdale
Chemical
Company



December 2001

Prepared For



Prepared By



EPA Region 5 Records Ctr.



283072



Transmittal Letter

RMT, Inc. ("RMT")
222 South Riverside Plaza, Suite 820
Chicago, IL 60606
Tel. (312) 575-0200 • Fax (312) 575-0300

To: Ms. Callie Bolattino/OSC
USEPA Region V
77 West Jackson Blvd.
Chicago, Illinois 60604

Date: 12/6/01
Project No.: 4962.01
Subject: Construction Completion Report

Prepared By: Rae Mindock **Title** Senior Project Manager

Signature: 

We are sending you:

☒ Report

COPIES	DATE	NO.	DESCRIPTION
1	12/6/01		Construction Completion Report

These items are transmitted as checked below:

☒ For approval

Remarks

Callie –

Here's the Construction Completion Report for your review. I will call you this afternoon to make sure you have everything you need.

Thanks for all your help with the project -





*Integrated
Environmental
Solutions*

222 South Riverside Plaza
Suite 820
Chicago, IL 60606
Telephone: 312-575-0200
Fax: 312-575-0300

Construction Completion Report

**On Behalf of Nufarm Americas Inc.
(Formerly Riverdale Chemical Company)**

December 2001

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Section 1

Introduction

This Construction Completion Report (Completion Report) was prepared on behalf of Nufarm Americas Inc. (formerly Riverdale Chemical Company) to document the activities completed during the implementation of the Phase II Removal Action at the Riverdale Chemical Company (Riverdale) site. The removal action was completed in accordance with the Administrative Order of Consent dated September 21, 2001.

The Phase II Removal Action Work Plan was approved by the USEPA on July 26, 2001. The scope of the Phase II RA included:

- Installation of asphalt engineered barrier.
- Installation of storm water retention system.
- Establishment of institutional controls in the form of deed restrictions.

The preconstruction activities were initiated in July 2001, with construction activities being completed in November 2001. The activities were conducted per the approved Phase II Removal Action Work Plan dated July 2001.

This Completion Report describes the methods used to complete each of the components of the Phase II RA and provides detailed documentation of how each of the activities listed above were completed. It has been organized into the following sections:

- Section 1 - Introduction: Provides the report organization and project background based on previous studies and reports for the site.
- Section 2 - Project Personnel and Reference Documents: Provides the organization and key personnel involved with construction, documents the weekly meetings and provides the reference materials used for the project.
- Section 3 - Construction of Engineered Barrier: Summarizes the activities required to complete the asphalt-engineered barrier.
- Section 4 - Construction of Storm Water Retention System: Summarizes the activities required to complete the storm water retention system installation.
- Section 5 - Changes to Design and Material Specifications: Provides a description of any changes that were made to the original design.
- Section 6 - Construction Quality Assurance Activities: Summarizes the testing procedures, construction inspections, and documentation activities that occurred during construction.

- Section 7 - Institutional Controls: Provides a description of the proposed deed restrictions to be established as a requirement of the Phase II Removal Action.

1.1 Project Background

The Nufarm Americas Inc. facility (formerly Riverdale Chemical Company) in Chicago Heights, Illinois, is an active facility used for the formulation and packaging of various agricultural and turf chemicals. The Phase I Removal Action Report, dated February 2001, provides information on the project background.

1.2 Project Review and Design Summary

The objectives of the Phase II Removal Action included establishing an asphalt engineered barrier to provide a barrier for impacted soils, establish design slopes to allow adequate drainage, install a storm water management system and to establish institutional controls in the form of deed restrictions. It should be noted that some of the area that does not contain impacted soil was included within the barrier.

To meet these objectives, the final design required the following:

- Asphalt Engineered Barrier
 - Subgrade preparation of the site.
 - Placement of crushed aggregate basecourse material.
 - Installation of asphalt basecourse.
 - Installation of asphalt binder.
- Storm Water Retention System
 - Installation of retention pond in the southeast portion of the site and tie-in to city storm sewer.
 - Installation of storm water retention basin (Rain Store) in the northwest portion of the site and tie into city storm sewer.
- Institutional Controls
 - Prepare deed restrictions documenting residual contamination.

The final design is documented in the As-Built Drawing provided in Appendix A.

Section 2

Project Personnel and Reference Documents

This section provides a brief description of each organization and the key personnel that were involved with the construction activities for the Phase II RA.

2.1 Project Participants

- USEPA – Callie Bolattino, On-Scene Coordinator represented the USEPA.
- Owner – Nufarm Americas Inc. (formerly Riverdale Chemical Company) represented by Dr. Peter Bibby, Operations Manager.
- Owner's Representative – RMT, Inc. represented by Rae Mindock, Senior Project Manager, and Heather Seus, Project Engineer.
- Engineer/Construction Quality Assurance (CQA) Engineer – Joseph A Schudt (Schudt) represented by Matt Anderson, Project Manager, and Terence Hoffmann, Field Inspector. Terracon (Daren Thomas) conducted the CQA testing.
- Contractor – Mosbeck Industrial Equipment (Mosbeck) represented by Tom Lazowski, Site Manager. Subcontractors included Bull's Eye Boring (Pete Llamas) and Callaghan Paving (Ed O'Sullivan).

2.2 Project Meetings

Regular meetings were held throughout the project to promote cooperation and communication between each organization involved with the construction activities. A Preconstruction Meeting was held at the site on August 8, 2001, to kick-off the project. Weekly progress meetings were held every Thursday morning at 10:00 a.m. throughout the project. Weekly Construction Reports were prepared to document the attendees, site progress and the issues addressed. The Final Walk Through was conducted on November 20, 2001. Minutes of the Preconstruction Meeting, Weekly Construction Reports and Minutes of the Final Walk Through are included in Appendix B.

2.3 Reference Documents

The following documents were used for reference during construction.

- U.S. EPA. 2001. Administrative Order of Consent for Phase I Removal Action. Riverdale Chemical Company. Chicago Heights, Illinois. September 21, 2001.

- RMT, Inc., 2001. Letter to USEPA, Subject: Riverdale Chemical Company, Addendum to Phase I Removal Action Work Plan. April 3, 2001.
- RMT, Inc., 2001. Phase I Removal Action Report, Riverdale Chemical Company, Chicago Heights, Illinois. February 2001.
- RMT, Inc., 2001. Phase I Removal Action Work Plan, Riverdale Chemical Company, Chicago Heights, Illinois. September 2000.
- RMT, Inc., 2001. Technical Memorandum of Sampling Activities, Riverdale Chemical Company. Chicago Heights, Illinois. June 27, 2001.
- RMT, Inc., 2001, Phase II Removal Action Work Plan, Riverdale Chemical Company, Chicago Heights, Illinois. July 2001.
- USEPA. 2000. Administrative Order of Consent for Phase I Removal Action. Riverdale Chemical Company. Chicago Heights, Illinois. November 16, 2000.
- USEPA. 2001. Administrative Order of Consent for Phase I Removal Action. Riverdale Chemical Company. Chicago Heights, Illinois. September 21, 2001.

Section 3

Construction of Asphalt Engineered Barrier

The Phase II RA included the installation of the asphalt-engineered barrier and associated stormwater management system (Section 4.0). The design of the asphalt-engineered barrier was completed by Joseph A. Schudt & Associates (Schudt). Schudt and Terracon provided Construction Quality Assurance (CQA) services for the Phase II RA. The asphalt-engineered barrier is intended to provide a barrier for impacted soils on the site. (It should be noted that some area that does not contain impacted soil would be included within the barrier.) The Phase II RA activities were conducted consistent with the current OSHA regulation and protocols designed to protect on-site personnel from potential hazards associated with site activities including scarification and excavation in the southern portion of the site.

In order to facilitate the construction activities during implementation of the Phase II RA at the active manufacturing facility, the site was divided into five different areas. In general, the areas were defined as: Area 1 – South of Raw Materials Warehouse; Area 2 – South of Finished Goods Warehouse; Area 3 – North of Finished Goods Warehouse; Area 4 – North of Manufacturing/Raw Materials Warehouse; Area 5 – Railroad Unloading Area. Construction activities were completed in phases according to these areas to minimize disturbance to facility operations.

Installation of the asphalt barrier began at the back of the site in Areas 1 and 2. Installation of the asphalt in the front of the plant (Areas 3 through 5) required significant coordination with plant management because the active finished goods and raw materials loading docks are located in Area 3 and Area 4, respectively. To reduce the amount of time that the loading docks would be inaccessible, the 3-inch asphalt basecourse was initially installed in Areas 4 and 5. The final paving was completed at a time when Areas 3, 4, and 5 could be completed concurrently. This occurred several weeks later, when for a period of two days plant shipping operations were essentially stopped, while the installation of the final course of asphalt was conducted. The components of the activities associated with the installation of the asphalt-engineered barrier are described in the following sections.

3.1 Site Preparation

Minimal site preparation beyond grading was required for the installation of the asphalt barrier due to the limestone cover that has been in place since 1985. Coordination was required to limit truck travel in the areas being paved, while maintaining production operations at the facility.

3.2 Sub-base Preparation

3.2.1 Grading

The existing limestone layer was scarified using the forks on the bucket of an excavator. Once the layer was scarified the areas were graded per the design requirements. The sub-base was compacted using a vibratory drum roller.

3.2.2 Excavation

Excavation of the existing sub-base was performed when it was visually apparent that the amount of compaction required would not be achieved, when field density tests did not meet acceptable results or to achieve final grades. Visual determinations were conducted by proof-rolling the sub-base. Typically, the proof-roll was done by driving a fully loaded tandem axle semi-dump truck over the area to determine if any soft, yielding areas existed. If deflection occurred the area was excavated. The minimum acceptable compaction result for the field density tests on the existing sub-base was 98 percent. Areas not achieving required compaction were excavated.

Areas were excavated throughout the site to achieve compaction requirements and to achieve final grades as defined in the Phase II RA Workplan. The excavation depths varied between four inches and sixteen inches below ground surface (bgs). Excavated soils were managed according to Phase I RA Work Plan. Excavated soils, which were impacted, were shipped and properly disposed of at CID Landfill in Calumet City, Illinois. Soil which was not impacted, based on analytical data, was shipped to Brights Landfill. The excavated areas were backfilled with Illinois DOT CA6 coarse aggregate.

3.2.3 Crushed Aggregate Basecourse Placement

The 3 inch crushed asphaltic aggregate basecourse was placed on top of the existing sub-grade and compacted using a vibratory drum roller. Field testing was conducted based on a 50-foot grid, with testing included moisture and density, as described in the Phase II RA Work Plan.

3.2.4 Bituminous Asphalt Course Placement

The final layer of asphalt included the placement of a binder fabric on the asphaltic basecourse. The 2-inch thick layer bituminous asphalt course was placed in 12-foot wide sections and rolled to meet compaction requirements. Field testing for thickness, density and moisture content was conducted as described in the Phase II RA Work Plan.

Section 4

Storm Water Management System

The Phase II RA included the installation of the asphalt engineered barrier (Section 3) and associated stormwater management system. The purpose of the stormwater retention system is to manage stormwater runoff at the facility. Based on design calculations, two stormwater collection systems were utilized. A stormwater collection pond was constructed in the southeast portion of the site and a below ground collection basin, referred to as the RainStore3 system, was constructed in the northwest portion of the site.

4.1 Storm Water Retention Pond Construction

The stormwater retention pond was constructed in an area that already collected some of the surface water runoff from the site. The area was re-graded and a drainage system was installed to facilitate drainage into the local sewer system. The retention pond was graded and seeded per the design requirements. Due to heavy rains, shortly after the final grade was established, some erosion occurred at the rain gutters on the east side of the Raw Materials Warehouse. Minimal re-grading will be conducted in the spring when the weather conditions are more favorable and the vegetation is well established. Stone has been placed in areas where erosion has occurred to minimize further erosion.

4.2 RainStore3 System Installation

The RainStore3 system consists of a series of cells that are made of molded plastic units. The molded plastic cells provide pore space for the storage of water. The area was excavated to install the RainStore3 system. Once the excavation was complete, an aggregate base of IDOT CA-11 was placed in the bottom of the excavation and compacted. The RainStore3 cells were stacked on top of the aggregate base. The same aggregate as used for the base was used to backfill along the sides of the RainStore3 cells and was compacted with a small mechanical compactor. A geogrid was placed over the top of the cells. The geogrid was overlapped by 12 inches. The top of the rain store system was backfilled with aggregate, graded, and compacted with a vibratory roller. Concrete was then installed over the aggregate. The concrete was allowed to cure for 14 days, after that period, truck traffic was able to resume over the area.

Section 5

Changes to Design and Material Specifications

The Phase II RA activities were conducted consistent with the approved Phase II RA Workplan, including the Construction Quality Assurance Plan (CQAP) (provided as Appendix C of the Workplan). The only modifications included improvements such as increasing the amount of heavy-duty pavement and increasing the area of concrete paving in order to better withstand truck traffic or placement of collection dumpsters. The modifications were documented in the letter to USEPA dated October 18, 2001 (Appendix C).

Section 6

Construction Quality Assurance Activities

The Phase II RA Work Plan, Appendix B, Construction Quality Assurance Plan describes the CQA activities. In general, the activities consisted of testing conducted in the field and in the laboratory, construction inspections, and documentation of activities that occurred during construction. The Phase II RA was conducted per the CQA Plan requirements. Documentation of CQA activities is described in the Weekly Construction Reports provided in Appendix B.

Section 7

Institutional Controls

Institutional controls will be implemented in the form of deed restrictions. The deed restrictions are included in the Phase II RA to impose land use limitations related to residual soil contamination at certain portions of the property. The level of residual contamination at the site is indicated in Appendix D.

Appendix A

As-Built Drawing

SDMS US EPA Region V

Imagery Insert Form



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Please see reason(s) indicated below:



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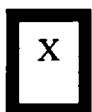
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Overall Site Plan – Record Drawing – (C) A
APPENDIX A



Document is available at the EPA Region 5 Records Center.

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Appendix B

Project Meetings Documentation



Minutes of Meeting

RMT, Inc. ("RMT")
222 South Riverside Plaza, Suite 820
Chicago, IL 60606
Tel. (312) 575-0200 • Fax (312) 575-0300

Project Name: Riverdale Chemical Company
Project No.: 4962.01 **Location:** Chicago Heights, IL
Meeting Date(s): August 2, 2001 **Date Prepared:** August 8, 2001
Subject: Phase II Removal Action
Pre-Construction Meeting
Riverdale Chemical Site
Attendees: Peter Bibby/Nufarm
Greg Jones/Nufarm
Tom Lazowski/Mosbeck Industrial Equipment
Pete Llamas/Bull's Eye Boring
Ed O'Sullivan/Callaghan Paving
Matt Anderson/Joseph A. Schudt
Charles Dalton/Joseph A. Schudt
Terence Hoffmann/Joseph A. Schudt
Daren Thomas/Terracon
Rae Mindock/RMT
Heather Seus/RMT
Prepared By: Rae Mindock **Title** Project Manager

Signature: 

The Pre-Construction Meeting for the Phase II Removal Action at the Riverdale Chemical Site was held at the site on August 2, 2001. The meeting began at 9 am and the following was discussed:

1. Introduction of parties involved with the Phase II Removal Action (RA) including:

- Owner - Nufarm is the owner with contacts Greg Jones or Peter Bibby.
- Owner's Representative - RMT is the owner's representative with respect to the USEPA activities. Construction contracts are let directly to Nufarm. Rae Mindock is RMT's project manager. Heather Seus may also be on-site. RMT will be responsible for submitting Construction Completion Report to USEPA.
- Engineer/Construction Quality Assurance (CQA) Engineer - Joseph A Schudt (Schudt) was the engineer for the site improvement plans and will be the CQA Engineer. Matt Anderson is JAS's project manager. Other JAS representatives include Charles Dalton and Terence Hoffmann. Terracon (Daren Thomas) is subcontracted to conduct the CQA testing.
- Contractor - Mosbeck Industrial Equipment (Mosbeck) is the construction contractor. Tom Lazowski is the site manager. There are two subcontractors working for Mosbeck - Bull's Eye Boring (Pete Llamas) and Callaghan Paving (Ed O'Sullivan).

Minutes of Meeting

- **U.S. EPA** – On-Scene Coordinator is Callie Bolattino. Callie may visit the site from time to time. The USEPA does not intend to have an oversight contractor at the site during Phase II. RMT or Nufarm will be the primary contacts with the USEPA.

Contact information is provided below:

Contacts	Location	Phone/Fax/e-mail
Riverdale/Nufarm Greg Jones or Peter Bibby	220 East 17 th Street Chicago Heights, IL 60411	(708) 756-2010 Fax (708) 756-2026 Peter.Bibby@us.nufarm.com
RMT Rae Mindock	222 S.Riverside Plaza, Ste 820 Chicago, IL 60606	(312) 575-0200 Fax (312) 575-0300 Rae.Mindock@rmtinc.com
Joseph A. Schudt Matt Anderson or Chuck Dalton	19350 S. Harlem Avenue Frankfort, IL 60423	(708) 720-1000 Fax (708) 720-1065 anderson@jaseng.com
Mosbeck Industrial Equipment Tom Lazowski (also Bull's Eye and Callaghan)	160 W. 154 th Street South Holland, IL 60473	(708) 333-6919 Fax (708) 333-9967 tom.lazowski@mosbeck.com
Terracon Daren Thomas	9427 Enterprise Drive Mokena, IL 60448	(708) 478-8868 Fax (708) 478-8867 dlthomas@terracon.com

2. **Tour Project Site** – The attendees were familiar with the site and it was determined a Project Site Tour was not necessary.
3. **Project Plans** – The work is being conducted under an order with the USEPA. The project plans are provided in the Phase II Work Plan (including Construction Drawings and Specifications, Construction Quality Assurance Plan (CQAP), and the Site Safety Plan.) Nufarm will maintain a copy of the Phase II Work Plan. Nufarm must approve changes or modifications. Any modifications to the plan will be documented. The as-built drawings will reflect existing site conditions at the completion of the project. Schudt, Mosbeck and Terracon will receive a copy of the approved Phase II Work Plan at the next meeting.
4. **Define Lines of Communication** – Communication with the USEPA will be maintained by RMT or Riverdale. RMT will document meetings between the consultants/contractors to meet the requirement of the order. Nufarm will communicate directly with the contractors in regard to scheduling, scope of work and potential changes. Both Schudt and Mosbeck will coordinate with Terracon for CQA sampling. RMT will receive copies of Daily Construction Reports from Mosbeck and CQA documentation from both Schudt and Terracon. RMT will provide forms at the next meeting. RMT will maintain the project files to meet the requirements of the order.

Site meetings will be held on a weekly basis. The meetings will be held on Thursday at 9 am. It is anticipated that representatives of consultants/contractors with on-going activities will be present at the meetings.

5. **Review Site Requirements** – The Safety Rules and Site Safety Plan were reviewed. The activities will be conducted under the Site Safety Plan as applicable. Workers on site should provide

Minutes of Meeting

Nufarm with copies of 40 hour OSHA training (as applicable). All workers should be familiar with the Site Safety Plan and sign the waiver provided in Appendix A.

The USEPA has provided notification that the work being conducted in the low lying area (storm water retention basin) is being conducted in an area where impacted soil has been excavated, therefore individuals working in the area do not require 40 hour OSHA training. Additionally, data collected at the front area of the site also indicates minimal impact to the soil. Activities conducted in the back of the site (south of the buildings) should be 40 hour OSHA trained if they are excavating/ disrupting soil.

6. Review Construction Issues – Tom Lazowski provided an update of the site activities to date. With respect to the Site Improvements project, the work at the stormwater retention basin was initiated and portions of the storm sewer system have been installed. During the week of August 13th, grading of Area 1 and curb installation at Area 1 and Area 2 will begin.

The site status will be reviewed on a weekly basis at the site meeting. Testing requirements will be reviewed by the team to project the testing needs for the upcoming week.

7. The meeting was adjourned at approximately 10 am.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 8/6 – 8/10/01	Report No. 1	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Very Hot/ Heat index >100		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 8/9/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Rae Mindock (RMT), Heather Seus (RMT), Tom Lazowski (Mosebeck)

1. Previous Work and Activities

- Pre-Construction meeting was held on August 2, 2001.
- Excavation of the stormwater retention basin and installation of storm sewers (catch basins complete)

2. On-Going Work (8/6 – 8/10)

- Excavation of the stormwater retention basin
- 24" storm sewer line
- Grading of Area 1 and 2 for curb
- Off-site disposal of soil from other areas (railroad unloading and liquid storage to CID as special waste)

3. Projected Work (8/13 – 8/17)

- Excavation of the stormwater retention basin
- Complete 24 " storm sewer line
- Excavate drilling box for boring under railroad (for 24" sewer line)
- Install curbs in Area 1 and 2 "
- Install manhole in 17th Street
- Complete off-site disposal of soil

4. Problems/Critical Areas

- None

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.
RMT on-site 8/9: Rae Mindock and Heather Seus.
Schudt and Terracon personnel were not on site.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/6-8/10	REPORT No. 1	PAGE No 2/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install trench
- Install concrete at trench
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer
- Install concrete
- Raise existing manholes
- Install crushed aggregate base coarse
- Install curbs
- Install manhole #9
- Install asphalt

Area 3 – North of Finished Goods Warehouse

- Remove fence (north)
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad
- Excavate 17th Street
- Modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A
- Install manhole #'s 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill at Rainstore3
- Install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install railroad timbers
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT: Riverdale Phase II Removal Action/Site Improvements**Area 4 – North of Manufacturing/Raw Materials Warehouse**

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Stormwater Retention Basin

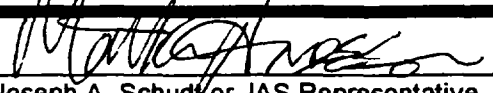
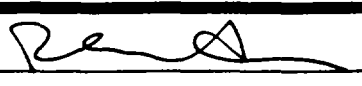
- Install manholes manholes and piping - **Complete**
- Excavate retention basin
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5
- Install 24" reinforced concrete pipe to manhole #5
- Reinstall fence
- Grade retention basin
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/6-8/10	REPORT No. 1	PAGE No 5 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED: See Resident's Weekly Report prepared by Mosbeck Industrial Equipment		
TESTING PERFORMED/SAMPLES COLLECTED:		
None		
FIELD PROBLEMS: There are no field problems to report.		

Received by:  Matt Anderson, Joseph A. Schudt or JAS Representative	Date: 8/23/00
Approved by:  Rae Mindock, RMT	Date: 8/23/01

Daily Construction Reports and Weekly Resident's Report to be attached to Weekly Construction Report ☒

CQA Report to be attached to Weekly Construction Report (as required per days of testing) N/A

CC: Dr. Peter Bibby/Nufarm ☒

RESIDENT'S WEEKLY REPORT

Date: 7-23 THRU 7-27

Contract: #1641 SITE IMPROVEMENT

Location: RIVERDALE GLEM

Weather: RAIN / HOT / 95°-100°

Contractor's Work Performed:

Task ID	Description of work
	<u>PUMPING WATER ON MONDAY, TUESDAY</u>
	<u>WEDNESDAY, THURSDAY & FRIDAY</u>
	<u>STARTED TO EXCAVATE ALONG SOUTH</u>
	<u>END OF POND. INSTALLED WALL ON</u>
	<u>WEST END OF POND. INSTALLED ONE</u>
	<u>CATCH BASIN ON NORTH WEST END OF POND</u>

Subcontractor's Work Performed:

Task ID	Description of work
	<u>NONE</u>

Major Equipment on Site:

HITACHI, CASE BACKHOLE, SKID LOADER

Materials Delivered to Site:

TWO CATCH BASINS, TIMBERS FOR WALL
6 LOADS OF STONE

Quality Assurance Issues:

NONE

Health & Safety Issues:

HEAT EXHAUSTION, HEAT INDEX OVER
95

Other:

LOCATED TWO MANHOLES NOT ON DRAWINGS

Prepared by: TOM LAZOWSKI

RESIDENT'S WEEKLY REPORT

Date: 7-30 THRU 8-3

Contract: #1641 SITE IMPROVEMENT

Location: RIVERDALE CEM

Weather: HOT OVER 90°

Contractor's Work Performed:

Task ID	Description of work
	<u>INSTALLED CATCH BASIN IN SOUTHWEST CORNER</u>
	<u>OF POND. PUMP WATER OUT OF POND & TRENCH</u>
	<u>EXCAVATE FOR 24" PIPE SET STONE</u>
	<u>IN BOTTOM OF TRENCH SOUTH END.</u>
	<u>CUT NEW 10" DIA. HOLE INTO EXISTING 36"Ø</u>
	<u>STORM PIPE. INSTALLED 24"Ø DRAIN PIPE</u>
	<u>HEAVY RAIN ON THURSDAY 3rd FILLED POND.</u>

Subcontractor's Work Performed: STARTED PUMPING WATER W/ TWO PUMPS
STILL PUMPING WATER ON FRIDAY & SATURDAY

Task ID	Description of work
	<u>NONE</u>

Major Equipment on Site:

HITACHI, CASE BACK HOLE, SKID LOADER,
DOZER, ROLLER

Materials Delivered to Site:

SOUTHEAST CATCH BASIN, 24"Ø PIPE, 10"Ø
PIPE, END FLARE SECTION, STONE

Quality Assurance Issues:

Health & Safety Issues:

VERY HOT TEMP. HEAT INDEX 105°+
HIGH WATER ON THURSDAY & FRIDAY

Other:

Prepared by: Tom LAZOWSKI



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 8/13 – 8/17/01	Report No. 2	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Some rain, temperatures in 70° F – 80° F's		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 8/16/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Rae Mindock (RMT), Heather Seus (RMT), Tom Lazowski (Mosbeck), Ed Brunke (Callaghan), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Excavation of the stormwater retention basin and installation of storm sewers is continuing

2. On-Going Work (8/13 – 8/17)

- Excavation of the stormwater retention basin
- Install 24" storm sewer line at stormwater retention basin
- Excavate drilling box for boring under railroad (for 24" sewer line)
- Install manhole in 17th Street
- Install curbs in Areas 1 and 2
- Excavate/scarify sub-grade north of liquid storage area to prepare for concrete

3. Projected Work

- Continue curb installation at Areas 1 and 2
- Continue with installation of 24" storm sewer line at stormwater retention basin
- Begin scarification and preparation sub-grade of Areas 1 and 2
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavation trench drain in Area 1
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Figures showing areas where soil is not impacted and areas with analytical data/risk levels discussed with group to confirm when construction workers are required to have 40 OSHA training.
- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/13-8/17	REPORT No. 2	PAGE No. 2/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site 8/16: Rae Mindock and Heather Seus.

Schudt generally on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were not on site *on-site 8/17*

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install trench
- Install concrete at trench
- Install crushed aggregate base coarse
- Install curbs - **In Progress**
- Install asphalt

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer
- Install concrete - **In Progress**
- Raise existing manholes
- Install crushed aggregate base coarse
- Install curbs - **In Progress**
- Install manhole #9
- Install asphalt

Area 3 – North of Finished Goods Warehouse

- Remove fence (north)
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/13-8/17	REPORT No. 2	PAGE No. 3/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Stormwater Retention Basin

- Install manholes manholes and piping - **In Progress**
- Excavate retention basin - **In Progress**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5
- Install 24" reinforced concrete pipe to manhole #5
- Reinstall fence
- Grade retention basin
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/13-8/17	REPORT No. 2	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Materials delivered include supplies for the stormsewer installation, stone for preparation of sub-grade and installation of base coarse.

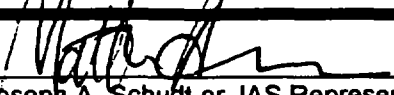

TESTING PERFORMED/SAMPLES COLLECTED:

Beginning week of 8/20 to 8/24 Terracon will be on site Monday/Wednesday/Friday.

8/17/01	CA6 Proctor Value	138.0 pcf @ 7.7% WC

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 10/8/01
Matt Anderson, Joseph A. Schutt or JAS Representative	
Approved by: 	Date: 10/8/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



2/12

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. 2

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 8-13-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Greg Jones		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M <input checked="" type="checkbox"/>	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast. <input checked="" type="checkbox"/>		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85 <input checked="" type="checkbox"/>	85 Up
SIGNATURE		WIND	Low <input checked="" type="checkbox"/>		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☒

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	out
Carlo Gulina	Mosbeck	7:00	3:30
Ken Fischer	Mosbeck	7:00	3:30
Perry DeYoung	Mosbeck	7:00	3:30
Tom HAZOWSKI	MOSBECK	7:00	3:30
C. TWIDDY	Mosbeck	7:00	3:30
T. MENDEZ	MOSBECK	7:00	3:30
T. Schichner	MosBECK	7:00	3:30
S. Motusik	"	7:00	3:30
K. ADAMS	"	7:00	3:30
S. Tardiff	Mosbeck.	7:00	3:30
Steve Tardiff	Mosbeck	7:00	9:05 Am
J. Tardiff	Mosbeck	7:00	3:30
Ken Fischer	MOSBECK	7:00	3:30

DAILY CONSTRUCTION REPORT

REPORT NO. 2

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-14-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Greg Jones		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast.		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE		WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:



CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carlo Mulinis	MOSBECK	6:05	3:30
Ken Fischer	MOSBECK	6:05	3:30
Tom LAZOWSKI	MOSBECK	6:50	3:30
C. TWIDY	MOSBECK	6:50	3:30
Treey DeYoung	Mosbeck	6:50	3:30
Scott Twiddy	Mosbeck	6:50	3:30
KEN FISHER	MOSBECK	6:55	3:30
Ken Odan	MOSBECK	6:55	3:30
Todd Schickner	MOSBECK	7:00	3:30
Vince Rizzi	"	7:00	3:30
Sam Maturana	"	"	3:30
John R. Turley	"	"	
John Turley			
Dean Verroneault	Callagher	7:00	
Tony Thompson	"	"	
Robert Conner			
John Conner			
Jaime Gantita			
Jose J. Sanchez			
Eduardo Figueroa	"	"	
El Odell			
T. H. H. H.	Mosbeck	6:50	3:30

DAILY CONSTRUCTION REPORT

REPORT NO. 2

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 8-15-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Greg Jones		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	<input checked="" type="checkbox"/>	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear	Overcast		Rain	Snow	
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50	50-70		70-85	85 Up	
SIGNATURE		WIND	Low		Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	IN	OUT
CARLO GULINA	MOSBECK	6:00
Ken Fischer	MOSBECK	6:15
Tracy DeYoung	MOSBECK	
C. TWIDDY	MOSBECK	6:45
KEN ADAMS	MOSBECK	6:45
TOM LAZOWSKI	MOSBECK	6:45
KEN FISHER	MOSBECK	6:45
T. Munk	Mosbeck	6:50
J. Matuik	"	"
J. Roy	"	"
T. Schreiner	"	"
J. Tully	"	"
Scott Tully		7:00

DAILY CONSTRUCTION REPORT

REPORT NO. 2

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-16-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Greg Jones		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	<u>TH</u>	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE		WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

SLOW DOWN BECAUSE OF RAIN

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Carl Gubina	MOSBEC	6:30	
Ken Fischer	MOSBEC	6:30	
Ken Adams	MOSBEC	6:30	
Jim R. Turley	"	"	
C. Twiddy	"	"	
Ken Fischer	"	"	
T. Merdy	"	"	
J. Kim	"	"	
T. Schickner	"	"	
Kerry DeLong	"	"	
Sam Maturski	"	"	
Bill Kulawick	"	"	
Scott Twiddy	"	"	
Tom LaBowsky	"	7:30	11:15

DAILY CONSTRUCTION REPORT

REPORT NO. 26

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-17-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Greg Jones		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:



CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		In	Out
Carlo Gulina	Mosbeck	6:00	
C. Twiddy	"	"	
T. MENDEZ	Mosbeck	6:50	
Ken Fisher	"	"	
KEN FISHER	"	6:55	
KEN ADAMS	"	6:55	
O. Ry	"	"	
Scott Dwyer	Mosbeck	7:00	
TERRY D. Young	Mosbeck	7:00	
Sam Matustick	"	"	

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 8-17-01 REVISED	REPORT No. 1	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	FRI	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report. Minor grading and fill placed for the concrete pad north of the tank farm in area 2	
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0001 & 56011049.0002	
REQUESTS FROM CONTRACTOR (with respect to testing): None	

TESTING PERFORMED/SAMPLES COLLECTED:		
Sample of placed CA6 stone material	Proctor Value (Lab)	Existing Stone*: 133.2 pcf @ 9.4% WC
		New Stone Import: 138.0 pcf @ 7.7% WC
		* NOTE, Proctor of existing stone taken during design work

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Terry Hoffman, JAS Macario Bernal, Terracon	Time:
SUBJECT/COMMENTS: Terry and Mac met and discussed the project schedule. No Grading was taking place.	
ACTION (IF NECESSARY):	

REPORT OF SITE VISIT**Terracon**9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868**Report Number:** 56011049.0002**Service Date:** August 17, 2001**Client:** Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423**Report Date:** August 23, 2001****REVISED****Project:** Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights**Project Number:** 56011049**Services:**

Terracon representative was on-site to discuss the project schedule with Terrance Hoffman of Joseph Schudt Associates. Terrance told the Terracon representative that there was no grading taking place today. There were a few yards of concrete being placed for curbs. Terracon had not been notified of the concrete placement and the Terracon representative told Terrance that he did not have any concrete equipment with him and therefore could not perform tests. Terrance told the Terracon representative that grading is scheduled to begin on Monday August 20. The Terracon representative took a sample of CA-6, that is to be used as new pavement basecourse to the lab to establish a Proctor value prior to the placement and compaction of the material.

Technician: Macario Bernal
Report Distribution:
(2) Joseph A. Schudt & AssociatesReviewed by: 

Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 8/20 – 8/24/01	Report No. 3	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Some rain, temperatures in 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 8/23/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Ed O'Sullivan (Callaghan), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Excavation of the stormwater retention basin and installation of storm sewers is continuing
- Installation of curbs and grading of Areas 1 and 2
- Work on 17th Street completed with exception of asphalt road repair

2. On-Going Work (8/20 – 8/24)

Excavation and installation of 24" storm sewer line at stormwater retention basin – 75% Complete

- Excavate drilling box for boring under railroad (for 24" sewer line)
- Continue curb installation at Areas 1 and 2 and concrete north of liquid storage area
- Manholes at east end (retention basis area) are complete and backfilled
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly

3. Projected Work

- Excavation trench drain in Area 1
- Continue curb installation at Areas 1 and 2
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/20-8/24	REPORT No. 3	PAGE No. 2/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.
RMT on-site Thursday: Rae Mindock and Heather Seus.
Schudt on-site on a daily basis: Terry Hoffmann, with visits from Matt Anderson.
Terracon personnel on site 8/20, 8/21, 8/22, 8/24.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install trench - **In Progress**
- Install concrete at trench
- Install crushed aggregate base coarse
- Install curbs - **In Progress**
- Install asphalt

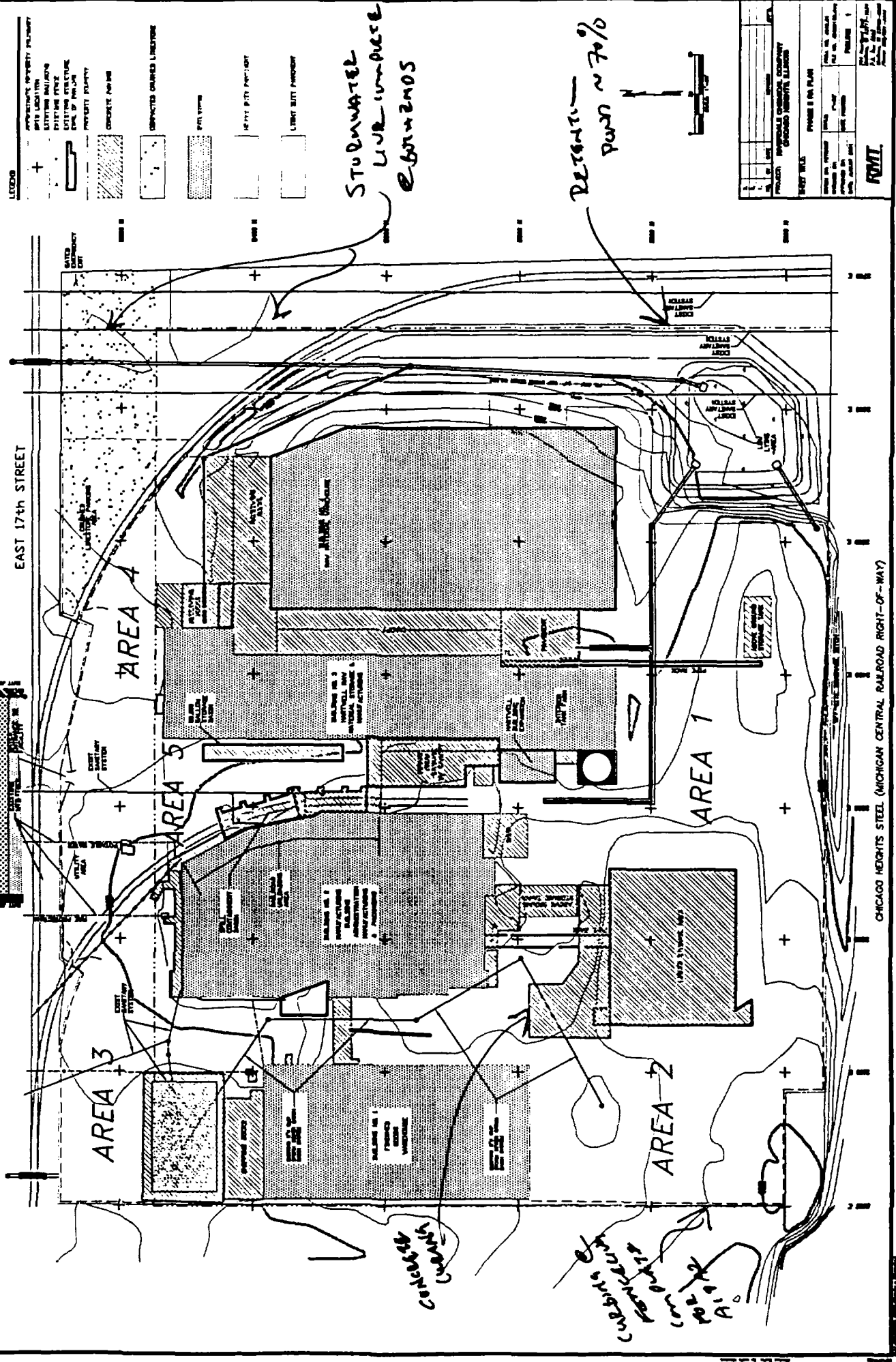
Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install concrete - **In Progress**
- Raise existing manholes
- Install crushed aggregate base coarse
- Install curbs - **In Progress**
- Install manhole #9
- Install asphalt

Area 3 – North of Finished Goods Warehouse

- Remove fence (north)
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

8/23

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PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/20-8/24	REPORT No. 3	PAGE No. 4/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Stormwater Retention Basin

- Install manholes manholes and piping - **In Progress**
- Excavate retention basin - **In Progress**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5
- Install 24" reinforced concrete pipe to manhole #5
- Reinstall fence - **In Progress**
- Grade retention basin - **In Progress**
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/20-8/24	REPORT No. 3	PAGE No 5 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

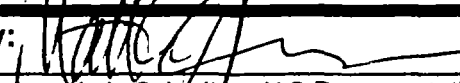

TESTING PERFORMED/SAMPLES COLLECTED:

Beginning week of 8/20 to 8/24 Terracon will be on site Monday/Wednesday/Friday, as required

8/20	Field Density Tests on subgrade and base course Proofroll on basecourse Concrete for slump and strength	Acceptable results for tests Samples collected for strength
8/21	Concrete for strength	Results due 8/28
8/22	Field Density Tests on subgrade Proofroll on basecourse	Acceptable results for tests
8/24	Base Stability	Suitable

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 9/20/01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 9/20/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WCR #3

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-20-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER <u>Nufarm</u>	T	F	S	M	T	W	TH	F	S	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow					
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up					
SIGNATURE <u>Tom Lazowski</u>	WIND	Low	Med.	High							
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid							

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	Mosbeck	6:15	
Tom LAZOWSKI	MOSBECK	6:50	
Ken Fischer	MOSBECK	6:50	
J. J. [unclear]	Mosbeck	6:50	
J. [unclear]	"	"	
K. ADAMS	MOSBECK	6:55	
K. FISCHER	MOSBECK	6:55	
TERRY DeYoung	Mosbeck	6:55	
J. Matyszek	"	5:45	
Dean Vannucci	collaghan	6:15	CREW 10
SIGNED IN ON GATE LIST.			
Dean Vannucci	collaghan	6:20	CREW 10
Frank Gentile	"	"	10
Anthony Rampa	"	"	"
Jaime Bautista	"	"	"

DAILY CONSTRUCTION REPORT

REPORT NO. WCR-3

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-21-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:



Per Project Schedule

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

8-

SITE PERSONNEL

Name / Company

IN

OUT

Carlo Gulina

mosbeck

6:30

E. Judd

"

"

6:30

E. Twigg

"

"

6:30

K. Fischer Jr

"

"

5:30

Terry DeYoung

"

"

6:30

K. ADAMS

"

"

6:50

V. Rini

"

"

6:00

Steve Judd

"

"

8:30

Tom Lazzowski

"

"

1245

DAILY CONSTRUCTION REPORT

REPORT NO. WCE #3

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-22-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	OUT
Carlo Gulino	Mosbeck		
TERRY DeYoung	Mosbeck	6:45	
KEN FISCHER	MOSBECK	6:45	
KEN ADAMS	"	6:45	
MIKE SHORRY	CT	7:00	
JOHN RANDYKE	"	"	
JOHN REESE	"	"	
JOE BISHOP	"	"	
ROB ESCHWAL	"	"	
KEN FISCHER	"	"	
TESSA TULLOCH	"	"	
MIATUSIK	"	5:50	
SCOTT TULLOCH	"	6:00	
TAM LAZOWSKI	"	6:45	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR #3

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8.23.01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:



CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	OUT
CARLO GULINA	Mosbeck	6:30	3:30
KEN FISCHER	"	"	3:30
TOM LABOWSKI	"	6:50	"
KEN FISCHER	Mosbeck	6:50	3:30
J. J. J. J.	"	6:53	3:30
KEN ADAMS	"	6:53	3:30
TERRY DYKING	Mosbeck	6:53	3:30
T. MENDEZ	"	5:52	3:30
V. B. B.	"	5:55	2:30
Scott Turbly	"	6:00	2:30
C. M. M.	"	6:00	2:30

DAILY CONSTRUCTION REPORT

REPORT NO. WCR #3

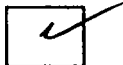
PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-24-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule



PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:



CC: Rae Mindock/RMT

G:\DATA\PROJECTS\Riverdale\Phase II RA\Riverdaledaily.doc

SITE PERSONNEL

Name / Company		IN	OUT
Carlo Gulina	mosbeck	6:00	
Ken Adams	"	6:05	
KEN ADAMS	"	6:45	
TERRY DeYoung	mosbeck	6:45	
Q. J. J. J.			
Vi. Blaz	mosbeck	6:00	2:30
S. J. J. J.	Mosbeck	6:00	2:30
T. Mendez	"	6:00	2:30

RESIDENT'S WEEKLY REPORTDate: 8-20 THRU 8-24Contract: #1641 SITE IMPROVEMENTLocation: NUFARM/RIVERDALE CEMWeather: NICE 80'SContractor's Work Performed:

Task ID	Description of work
	INSTALLED 24" RCP INSIDE OF 42" SLEEVE
	UNDER SPUR TRACK ON EAST END.
	INSTALLING 24" RCP FROM MANHOLE TO
	MANHOLE. INSTALLED MANHOLE FOR
	6" DI PIPE. BACKFILLING OVER
	SEWER PIPE & AROUND MANHOLES
	CONTINUE TO DIG OUT POND

Subcontractor's Work Performed:

Task ID	Description of work
	GROUT AREA BETWEEN STEEL SLEEVE
	& 24" RCP UNDER BOTH RAILROAD
	TRACKS.
	INSTALL CONCRETE PADS
	INSTALL FENCE ON SOUTH SIDE
	OF POND

Major Equipment on Site:

2-HITACHI'S CASE BACK HOLE, 2-SKID LOADERS
DOZER & ROLLER (COMPACTOR HAND)
(WATER PUMP RENTAL)

Materials Delivered to Site:

MANHOLES, TRENCH DRAINS, 24" RCP,
REBAR 6" DI PIPE CA-6, CA-11, 6" PVC
DRAIN PIPE.

Quality Assurance Issues:

TERRACON DOING SOIL COMPACTION TEST
TAKING CONCRETE SAMPLES FOR PAD.

Health & Safety Issues:

NONE

Other:

Prepared by: TOM LAZOWSKI

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR#3

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 8-20-01	REPORT No. 2	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER: Partly Cloudy						
REPORT PREPARED BY: Matthew Anderson		TEMP: 75 F						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE: 8 am	TIME LEFT SITE: 3 pm	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0003 & 56011049.0004 & 56011049.0005		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED:		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Existing subgrade in Area 2: 6 Results prior to fill ranging 99.3 to 100%+ compaction. Minimum acceptable result is 98%.
Field Density Tests*	% Compaction (Proctor)	New CA6 base course in Area 2: 2 tests @ 99.9%.
Proofroll		A fully loaded tandem axel semi-dump truck is rolled to determine if any soft, yielding areas might exist. No deflections occurred.
Concrete Tests (Terracon cylinders only)	Slump, Air Content%, Temperature	Slump: 5.0 inches 7.4% Air Content Concrete Temp: 80 F
Concrete	Strenght	Concrete cylinders, Set 1C, A-D placed by Terracon. Set 2C; A-D placed by Contractor
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Tom Lazowski	Time:
SUBJECT/COMMENTS: Field Results reported to Tom Lazowski	
ACTION (IF NECESSARY):	

FIELD DENSITY TESTING

Terracon

Report Number: 56011049.0003
Service Date: August 20, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: August 23, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	<u>Lab Test Data</u>		<u>Project Requirements</u>	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone (new fill)	7.7	138.0		98
2. 110490008	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone (subgrade)	9.4	133.2		

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
Parking lot subgrade, area 2							
1	Southwest corner of area 2	subgrade	2	BS	11.5	132.3	99.3
2	West end of area 2	subgrade	2	BS	5.2	133.9	100.0+
3	Northwest corner of area 2	subgrade	2	BS	4.8	139.5	100.0+
4	Southeast corner of area 2	subgrade	2	BS	6.2	133.3	100.0+
5	East end of area 2	subgrade	2	BS	5.5	145.6	100.0+
6	Northeast corner of area 2	subgrade	2	BS	6.4	135.2	100.0+
7	East end of area 2 just west of tank	grade	1	BS	4.9	137.9	99.9
8	East end of area 2 storage area	grade	1	BS	6.2	137.8	99.9

S.G = existing subgrade

Grade = design subgrade elevation

The Terracon representative was on site to observe a proofroll of the area 2 subgrade soils and test the compaction of sandy gravel crushed limestone subgrade soils and new fill. The proofroll was conducted with fully loaded tandem axle semi dump-trucks. No deflection was observed. Compaction tests were conducted using a nuclear density gauge. The results of the tests indicated that the existing subgrade and new fill soils met the necessary 98% compaction specification. The existing

FIELD DENSITY TESTING

Client: Joseph A. Schudt & Associates

Terracon

Project Number: 56011049

Report Number: 56011049 0003

Comments (cont'd):

subgrade soils that was at the existing subgrade elevation was rolled several times with a vibratory roller prior to the compaction tests. The tests were taken using the standard proctor value of 133.2 pcf for the existing subgrade soils. The new (CA-6) that was placed and compacted using a vibratory roller was tested using a standard proctor value of 138.0 pcf.

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID: #3

Field Results Reported To: Tom Lazowski

Technician: Macario Bernal

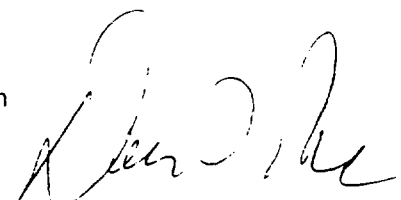
Started: 8:00 am

Finished: 3:00 pm

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Report Number: 56011049.0004

Service Date: August 20, 2001

Client: Joseph A. Schudt & Associates

Attn: Matt Adnerson

19350 South Harlem Avenue

Frankfort IL 60423

Report Date: August 23, 2001

Project: Riverdale Chemical Pavements

220 E. 17th Street

Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time: 12:12 pm Plant: Chicago Heights, IL

Supplier: Ozinga

Truck No: 363

Ticket No: 32255

Mix I.D. No.: 1777

Sample Information

Sample Time: 12:35 pm Date Cast: August 20, 2001

Technician: Macario Bernal

Weather Conditions: Partly Cloudy

Accumulative Yards: 50

Placement Method: Direct Discharge

Sample Locations: 5' north of west metal guard rail

Placement Location: Exterior pavement north of tank storage area

Field Test Data

Test	Result	Specification
Slump, inches:	5.0	
Air Content, %:	7.4	
Concrete Temperature, ° F:	80	
Ambient Temperature, ° F:	75	
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
1C	A			08/27/2001	7		
1C	B			09/17/2001	28		
1C	C			09/17/2001	28		
1C	D			10/15/2001	56		

Comments:

No mix design submitted

Services - The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

Field Results Reported To: Tom Lazowski

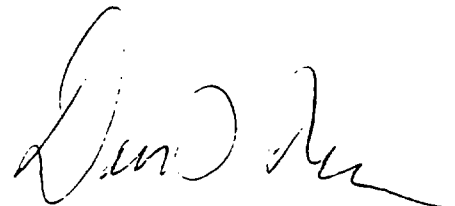
Samples made by Terracon.

Technician: Macario Bernal

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 56011049.0005
Issue Date: August 20, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: August 23, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time:

Supplier: Ozinga

Truck No:

Mix I.D. No.:

Ticket No:

Sample Information

Sample Time: Date Cast: August 20, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method: Direct Discharge

Sample Locations: North of tank storage area

Placement Location: Exterior pavement

Field Test Data

<u>Test</u>	<u>Result</u>	<u>Specification</u>
Slump, inches:		
Air Content, %:		
Concrete Temperature, ° F:		
Ambient Temperature, ° F:		
Plastic Unit Weight, pcf:		

Laboratory Test Data

<u>Set No.</u>	<u>Specimen ID</u>	<u>Diameter (inches)</u>	<u>Area (sq. inches)</u>	<u>Date Tested</u>	<u>Age at Test (days)</u>	<u>Maximum Load (lbs)</u>	<u>Compressive Strength (psi)</u>
2C	A			08/27/2001	7		
2C	B			09/17/2001	28		
2C	C			09/17/2001	28		
2C	D			10/15/2001	56		

Comments:

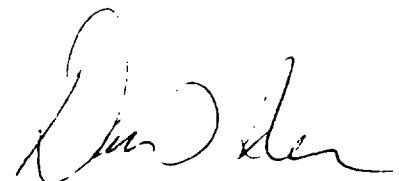
No mix design submitted

Technician: CONTRACTOR

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

100243

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 8-21-01	REPORT No 3	PAGE No. 1
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M
		<input checked="" type="checkbox"/>	T	W
		TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER: Partly Cloudy		
REPORT PREPARED BY: Matthew Anderson		TEMP: 75 F		
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:		
TIME ON-SITE: 8 am	TIME LEFT SITE: 3 pm	PRECIPITATION:		

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report															
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0006															
REQUESTS FROM CONTRACTOR (with respect to testing): None															
TESTING PERFORMED/SAMPLES COLLECTED: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 30%; text-align: center;">Concrete</td> <td style="width: 30%; text-align: center;">Strenght</td> <td style="width: 40%;">Concrete cylinders, Set 3C, A-D collected from contractor. 7 day results expected 8-28-01</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	Concrete	Strenght	Concrete cylinders, Set 3C, A-D collected from contractor. 7 day results expected 8-28-01												
Concrete	Strenght	Concrete cylinders, Set 3C, A-D collected from contractor. 7 day results expected 8-28-01													
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None															

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS:	
ACTION (IF NECESSARY):	

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 56011049.0006

Issue Date: August 21, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: August 23, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time:

Supplier: Ozinga

Truck No:

Mix I.D. No.:

Ticket No:

Sample Information

Sample Time:

Date Cast: August 21, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method: Direct Discharge

Sample Locations: North of tank storage area

Placement Location: Exterior Pavement

Field Test Data

<u>Test</u>	<u>Result</u>	<u>Specification</u>
Slump, inches:		
Air Content, %:		
Concrete Temperature, ° F:		
Ambient Temperature, ° F:		
Plastic Unit Weight, pcf:		

Laboratory Test Data

<u>Set No.</u>	<u>Specimen ID</u>	<u>Diameter (inches)</u>	<u>Area (sq. inches)</u>	<u>Date Tested</u>	<u>Age at Test (days)</u>	<u>Maximum Load (lbs)</u>	<u>Compressive Strength (psi)</u>
3C	A			08/28/2001	7		
3C	B			09/18/2001	28		
3C	C			09/18/2001	28		
3C	D			10/16/2001	56		

Comments:

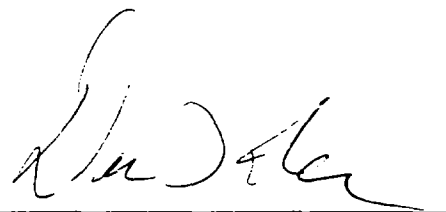
No mix design submitted

Technician: CONTRACTOR

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:


Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCP #3

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 8-22-01	REPORT No. 4	PAGE No. 1
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M
		T	W <input checked="" type="checkbox"/>	TH
		F	S	
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER: Partly Cloudy		
REPORT PREPARED BY: Matthew Anderson		TEMP: 75 F		
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:		
TIME ON-SITE: 11 am	TIME LEFT SITE: 3 pm	PRECIPITATION:		

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0007		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED:		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Existing subgrade in Area 1: 4 Results prior to fill ranging 98.3 to 100%+ compaction. Minimum acceptable result is 98%.
Proofroll		No deflections occurred.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS:	
ACTION (IF NECESSARY):	

FIELD DENSITY TESTING

Terracon

Report Number: 56011049.0007

Issue Date: August 22, 2001

9427 Enterprise Drive
Mokena, IL 60449
(708) 473-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: August 23, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone (basecourse)	7.7	138.0	5.3-9.5	98
2. 110490008	ASTM D698-91	Gray sandy gravel, crushed limestone (subgrade)	9.4	133.2		

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
1	Existing parking lot subgrade: area 1	-10"	2	12"	5.4	131.0	98.3
2	Existing parking lot subgrade: area 1	-10"	2	12"	2.3	134.5	100.0+
3	Existing parking lot subgrade: area 1	-10"	2	12"	3.3	137.1	100.0+
4	Existing parking lot subgrade: area 1	-10"	2	12"	3.1	141.4	100.0+

Datum: 0.0" = Finished subgrade

Terracon representative was on-site to observe the proofroll of area 1 subgrade soils and test the compaction of the existing crushed stone subgrade in area 1. Proofroll was conducted using fully loaded tandem axle semi dump-trucks. No deflection was noted as the dump-trucks passed over the existing subgrade soils in this area. The subgrade was initially compacted with a vibratory roller. After compaction, the density tests were taken using a nuclear density gauge. The results of the tests indicated that the subgrade meets the necessary 98% compaction specification using a standard Proctor value of 133.2 pcf. See attached sketch for test locations.

Field Test Method: ASTM D2922, ASTM D3017

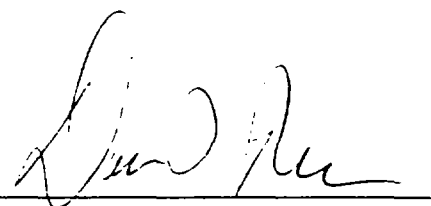
Gauge ID: #3

Technician: Macario Bernal

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

wc2 3

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 8-24-01	REPORT No 5	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M <input checked="" type="checkbox"/>	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE: 4hrs	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0009		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED:		
Visual Observation & Hand Pentrometer	Base Stability	Subgrade soils suitable for fill
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Macario (Terracon) Scott (Mosbeck)	Time:
SUBJECT/COMMENTS: Field observations reported to Scott with Mosbeck	
ACTION (IF NECESSARY):	

REPORT OF SOILS OBSERVATION**Terracon**

Report Number: 56011049-0009

Service Date: August 24, 2007

7477 Enterprise Drive
Melrose, IL 60440
(708) 478-8866Client: Joseph A. Schuch & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: September 04, 2007

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

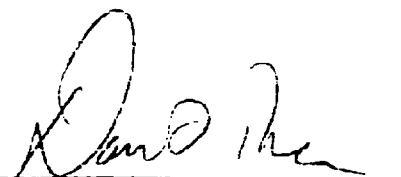
Project Number: 56011049

Services:

Terracon representative was on-site to observe the excavation to subgrade for an exterior loading dock pad just north of the recently constructed tank storage area. Due to the depth of the excavation (about 2'-2.5'), it was not possible to proofroll the area. However, based on hand penetrometer tests and visual observation, the subgrade soils appeared to be suitable for fill placement and compaction.

Samples made by Terracon
Field Results Reported To: Scott
Technician: Mecario Bernal
Report Distribution:
To: Joseph A. Schuch & Associates

Reviewed by:



Daren Thomas

Tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 8/27 – 8/31/01	Report No. 4	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 8/30/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Ed O'Sullivan (Callaghan), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Excavation of the stormwater retention basin and installation of storm sewers is continuing
- Installation of curbs and grading of Areas 1 and 2 (60%)
- Work on 17th Street completed with exception of asphalt road repair

2. On-Going Work (8/27 – 8/31)

- Excavation and installation of 24" storm sewer line at stormwater retention basin – 95% Complete
- Excavate drilling box for boring under railroad (for 24" sewer line)
- Excavation trench drain in Area 1
- Continue curb installation at Areas 1 and 2 and concrete north of liquid storage area
- Manholes at east end (retention basis area) are complete and backfilled
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly

3. Projected Work

- Continue with curb work in Area 1 and 2, preparing subgrade in both areas
- Grading of stormwater retention pond will continue
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/27-8/31	REPORT No. 4	PAGE No. 215
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site 8/28.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install trench - **In Progress**
- Install concrete at trench **In Progress**
- Install crushed aggregate base coarse **In Progress**
- Install curbs - **In Progress**
- Install asphalt

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install concrete - **In Progress**
- Raise existing manholes - **In Progress**
- Install crushed aggregate base coarse - **In Progress**
- Install curbs - **In Progress**
- Install manhole
- Install asphalt

Area 3 – North of Finished Goods Warehouse

- Remove fence (north)
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT: Riverdale Phase II Removal Action/Site Improvements**Area 4 – North of Manufacturing/Raw Materials Warehouse**

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Stormwater Retention Basin

- Install manholes manholes and piping - **In Progress**
- Excavate retention basin - **In Progress**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5
- Install 24" reinforced concrete pipe to manhole #5
- Reinstall fence - **In Progress**
- Grade retention basin - **In Progress**
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 8/27-8/31	REPORT No. 4	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

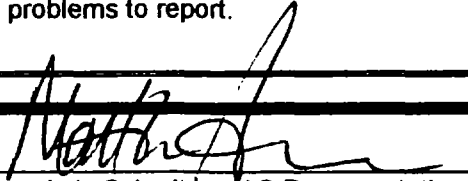

TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

8/28	Concrete strength	Acceptable results

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 10/8/07
Matt Anderson, Joseph A. Schudt for JAS Representative	
Approved by: 	Date: 10/8/07
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☒

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☒

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WCR-24

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-27-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

G:\DATA\PROJECTS\Riverdale\Phase II RA\Riverdaledaily.doc

SITE PERSONNEL

Name / Company		IN	OUT
Carlo Gulina	MOSBECK	6:00	3:30
Ken Frickas	MOSBECK	6:05	3:30
Tom LAZOWSKI	MOSBECK	6:40	3:30
Scott Landolt	Mosbeck	6:00	2:30
James R. Junky	"	11	3:30
Edgar Delaney	Mosbeck	6:40	3:30
Mark Koedda	Discount Fence	9:50 AM	3:30
David Kugelrichi	" "	9:50 AM	3:30
T. MENDEZ	Mosbeck	6:00	3:30

DAILY CONSTRUCTION REPORT

REPORT NO. wce#4

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-28-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule

☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	MOSBECK	6:00	
Ken Fischer	MOSBECK	6:00	
S. Tardif	Mosbeck	6:00	2:30
S. MATWIK	"	6:20	
TERRY DeYoung	Mosbeck	6:30	
Tom LAZOWSKI	MOSBECK	6:45	
V. Riezi	"	6:00	2:30
S. Matwik	"	6:00	2:30
T. Mendez	"	6:00	2:30

DAILY CONSTRUCTION REPORT

REPORT NO. WCR 24

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-29-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

☐

Per Project Schedule

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	OUT
Carlo Molina	MOSBECK	6:00
Ken Fuslin	MOSBECK	6:00
Sam Matusik	"	"
Dean Verronault	Callaghan	6:00 in
Anthony Bautista	Callaghan	
Alfonso Conz	6:16 PM	6:00 in
Andy Mata Callaghan		6:00
TOM LAZOWSKI	MOSBECK	6:45
KEVIN DEKOR	MOSBECK	6:45
KEN ADAMS	"	6:45
Scott Tinkley	"	7:00
T. MENDEZ	"	6:00

DAILY CONSTRUCTION REPORT

REPORT NO. WCR#4

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-30-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	Out
Carlo Gulino mosbeck	6:00	
Dean Verrawell callaghan	6:00-10-TOTAL	
T. MENDEZ Mosbeck	6:00	
V. Rizz Mosbeck	6:00	
K. Fischer Mosbeck	6:10	
K. ADAMS MOSBECK	6:50	
K. FISCHER MOSBECK	6:50	
T. DeYoung Mosbeck	6:50	
Tom LAZOWSKI	6:30	

DAILY CONSTRUCTION REPORT

REPORT NO. wce#4

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>8-31-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby (708) 756-2010		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	MOSBECK	6:00	3:31
Tom HAZOWSKI	"	6:35	"
Ken Fischer	MOSBECK	6:35	"
Terrell DeYoung	Mosbeck	6:45	"
KEN ADAMS	MOSBECK	6:50	"
KEN FISCHER	MOSBECK	6:50	"
HANK KOEHLER	Discount Fence	8:50	"
DAVID KRAZELNICKI	" "	8:50	"
T. MENDEZ	" "	6:00	"
Bob Snyder	Union Lightning Protect.	9:30	11:30

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR #4

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 8-28-01	REPORT No 6	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F <input checked="" type="checkbox"/>	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER: n/a							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE: n/a	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached amended Terrecon site report No. 56011049.0004,0005, 0006		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED:		
Concrete Strenght (7 day)	Min. Strenght @ 28 days 4,000psi	1C – Max Load = 94,990 lbs; Strenght = 3,360 psi
		2C – Max Load = 93,150 lbs; Strenght = 3,290 psi
		3C – Max Load = 103,440 lbs; Strenght = 3,660 psi
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS:	
ACTION (IF NECESSARY):	

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 56011049-0004

Service Date: August 21, 2001

9117 Enterprise Drive
Franklin, IL 60141
(708) 476-8828

ncey

Client: Joseph A. Schuch & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Franklin, IL 60123

Report Date: September 06, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Sample Information

Specified Strength:

Sample Time: 12:35 pm Date Cast: August 20, 2001

Technician: Macario Bernal

Weather Conditions: Partly Cloudy

Accumulative Yards: 50

Placement Method: Direct Discharge

Sample Locations: 5' north of west metal guard rail

Placement Location: Exterior pavement north of tank storage area

Batch Time: 12:12 pm Plant: Chicago Heights, IL

Supplier: Ozinga

Truck No: 363

Ticket No: 32255

Mix I.D. No: 1777

Field Test Data

Test	Result	Specification
Slump, inches.	5.0	
Air Content, %	7.4	
Concrete Temperature, °F.	80	
Ambient Temperature, °F.	75	
Plastic Unit Weight, pcf.		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs.)	Compressive Strength (psi)
1C	A	6.00	28.27	08/27/2001	7	94,990	3,360
1C	B			09/17/2001	28		
1C	C			09/17/2001	28		
1C	D			10/15/2001	56		

Comments

No mix design submitted

Services - The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

Field Results Reported To: Tom Lazowski

Samples made by Terracon.

Technician: Macario Bernal

Report Distribution:

(2) Joseph A. Schuch & Associates

Reviewed by:

Darren Thier as

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST**Terracon***new*

Report Number: 56011049 0005

Service Date: August 20, 2001

227 E. High Street
Chicago, IL 60601
(708) 378-8888Client: Joseph A. Schuch & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: September 08, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time:

Supplier: Ozings

Truck No:

Ticket No:

Mix ID No:

Sample Information

Sample Time: Date Cast: August 20, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method: Direct Discharge

Sample Locations: North of tank storage area

Placement Location: Exterior pavement

Field Test Data

Test	Result	Specification
Slump, inches:		
Air Content, %:		
Concrete Temperature, °F:		
Ambient Temperature, °F:		
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
2C	A	6.00	28.27	08/27/2001	7	93,150	3,290
2C	B			09/17/2001	28		
2C	C			09/17/2001	28		
2C	D			10/15/2001	55		

Comments:

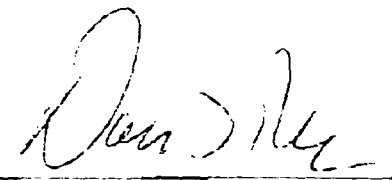
No mix design submitted

Technician: CONTRACTOR

Report Distribution:

To: Joseph A. Schuch & Associates

Reviewed by:



Daren Thomas

Test results were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced or reprinted in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

WCL 47

Report Number: 56011049.0006

Service Date: August 21, 2001

Terracon Enterprise Data
Mckenz L 0040P
(708) 478-9868

Client: Joseph A. Schuch & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: September 06, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time:

Supplier: Ozarka

Truck No:

Mix ID. No.:

Ticket No:

Sample Information

Sample Time: Date Cast: August 21, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method: Direct Discharge

Sample Locations: North of tank storage area

Placement Location: Exterior Pavement

Field Test Data

Test	Result	Specification
Slump, inches.		
Air Content, %		
Concrete Temperature, °F.		
Ambient Temperature, °F.		
Plastic Unit Weight, pcf.		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
3C	A	8.00	28.27	08/28/2001	7	103,440	3,660
3C	B			09/18/2001	28		
3C	C			09/18/2001	28		
3C	D			10/16/2001	55		

Comments:

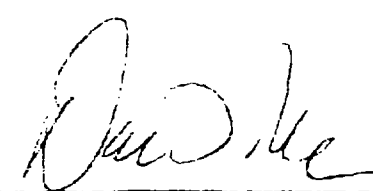
No mix design submitted

Technician: CONTRACTOR

Report Distribution:

Joseph A. Schuch & Associates

Reviewed by:



Daren Thomas

Tests were performed in general accordance with applicable ASTM, MASH-TO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 9/4 – 9/8/01	Report No. 5	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 9/7/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Ed O'Sullivan (Callaghan), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Excavation of the stormwater retention basin and installation of storm sewers is continuing
- Installation of curbs and grading of Areas 1 and 2 (95%)
- Work on 17th Street completed with exception of asphalt road repair

2. On-Going Work (9/4 – 9/8)

- Excavation and installation of 24" storm sewer line at stormwater retention basin – 95% Complete
- Excavation trench drain in Area 1
- Continue curb installation at Areas 1 and 2 and concrete north of liquid storage area – 95% Complete
- Manholes at east end (retention basis area) are complete and backfilled
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly

3. Projected Work

- Complete curb work in Area 1 and 2, preparing sub-grade base in both areas
- Grading of stormwater retention pond will continue
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/4-9/8	REPORT No. 5	PAGE No. 2/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.
RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install trench - **In Progress**
- Install concrete at trench **In Progress**
- Install crushed aggregate base coarse **In Progress**
- Install curbs - **In Progress**
- Install asphalt

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install concrete - **In Progress**
- Raise existing manholes - **In Progress**
- Install crushed aggregate base coarse - **In Progress**
- Install curbs - **In Progress**
- Install manhole - **In Progress**
- Install asphalt

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **In Progress**
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/4-9/8	REPORT No. 5	PAGE No. 5 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Stormwater Retention Basin

- Install manholes manholes and piping - **In Progress**
- Excavate retention basin - **In Progress**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **In Progress**
- Install 24" reinforced concrete pipe to manhole #5 - **In Progress**
- Reinstall fence - **In Progress**
- Grade retention basin - **In Progress**
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/4-9/8	REPORT No. 5	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

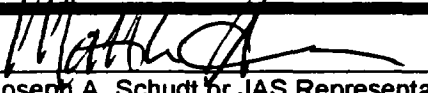

TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

9/4/2001	Proofroll SE Corner Area 1	No visible deflections occurred.

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 10/8/01
Matt Anderson, Joseph A. Schudt for JAS Representative	
Approved by: 	Date: 10/8/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WCR#5

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-4-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule

☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	IN	Out
Charles Gulnic	MOSBECK	5:30
Kenn Adams	MOSBECK	5:50
T. Mendez	" "	" "
Eric DeYoung	Mosbeck	5:50
K. Fischer	"	"
Dean Duran	Callaghan	6:00-10
R. Fischer	MOSBECK	6:00
S. Judd	Mosbeck	6:00
Tom HAZOUSKI	MOSBECK	6:35

DAILY CONSTRUCTION REPORT

REPORT NO. WCR 25

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-5-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

IN

OUT

Charles Meline	Mosbeck	5:30	
Ken Fischer	Mosbeck	5:40	
KEN ADAMS	MOSBECK	5:50	
KEN F. SCHER	MOSBECK	5:50	
Dean Vesperman	Callaghan 10	5:55	
Larry DeLong	Mosbeck	5:55	
P. Mundy	Mosbeck	5:55	
S. Matsumoto	"	"	
S. Judd	Mosbeck	6:00	
Tom LAZOWSKI	"	6:40	9:30
Bob Snyder	ULPI	12:10	
Tim Boyd	ULPI	12:10	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR 25

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-6-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulino	Mosbeck	5:30	
Ken Fischer	Mosbeck	11	
T. Mendy	Mosbeck	5:50	
Ken Fischer	Mosbeck	5:50	
Ken Adams	Mosbeck	5:50	
Ken Adams	Mosbeck	6:00	
S. Fildes	Mosbeck	6:00	
Tom LAZOWSKI	11	6:20	
Danny Verreault	Callaghan 10	6:20	
Frank Scitell	Callaghan	6:20	
T. Mendy	Mosbeck	6:20	

DAILY CONSTRUCTION REPORT

REPORT NO. Wce #5

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-7-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
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OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

9/7/01

SITE PERSONNEL

Name / Company		IN	Out
Charles Gulina	MOSBECK	5:30	
KEN ADAMS	MOSBECK		
KEN FISCHER	MOSBECK		
Frank Santoro	Callaghan	6:20	
Dan Vermeert	Callaghan	6:20	
TOM LAZOWSKI	MOSBECK	7:30	
T. MENDEZ	Mosbeck	5:50	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR#5

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-8-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast <input checked="" type="checkbox"/>		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70 <input checked="" type="checkbox"/>		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med. <input checked="" type="checkbox"/>		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod. <input checked="" type="checkbox"/>		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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9/8/01

SITE PERSONNEL

Name / Company		IN	OUT
Carlo Molina	Mosbeck	5:30	
Ken Fischer	Mosbeck	5:40	
KEN ADAMS	MOSBECK	5:45	
T. MENDEZ	MOSBECK	5:00	
S. MATUSIK	"	"	
TOM LAZOWSKI	"	11:45	

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR 45

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-4-01	REPORT No. 7	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T <input checked="" type="checkbox"/>	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terrecon site visit report No. 56011049.00014		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED:		
Proofroll	SE Corner Area 1	No Visible deflections occurred.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Scott (Mosbeck)	Time:
SUBJECT/COMMENTS: Informed of passage	
ACTION (IF NECESSARY):	

REPORT OF PROOFROLL OBSERVATION

Terracon

WCH

Report Number: 56011049-010

Survey Date: September 1, 2001

1427 Terracon Blvd.
Chicago, IL 60642
(773) 375-4500

Client: Terracon & Chicago's Association
Attn: Matt Mosbeck
18300 South Harlem Avenue
Franklin, IL 60420

Report Date: September 03, 2001
Project: F. Vardale Chemical Development
320 E. 17th Street
Chicago Heights

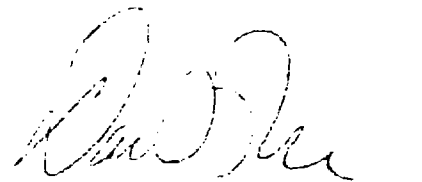
Project Number: 56011049

Services:

The Terracon representative was on site to observe the excavation of the subgrade in the southeast corner of prop 1. The area was excavated to reach the new subgrade elevation. CA-6 type stone along with some soil was removed. When the design elevation was reached, the Terracon representative conducted the proofroll of the area. The proofroll was conducted using a fully loaded semi dump truck. The proofroll showed little or no deflection of the soil. The soil proofrolled appeared to be suitable to have the design 10-inches of new (CA-6) crushed limestone placed. The area will be tested for compaction and another proofroll will be taken of the new basecourse placed and compacted in the area just prior to the placement of asphalt. Scott with Mosbeck was informed of the results.

Field Results Reported To: Scott with Mosbeck
Technician: Mariano Bernier
Report Distribution:
C. Joseph A. Schuster Associates

Reviewed by



Darin Thomas

This test was performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client and should not be relied upon for any other purpose without the approval of Terracon. Terracon's transmission of this report is only applicable to the actual test results reported and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 9/10 – 9/14/01	Report No. 6	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 9/13/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Ed O'Sullivan (Callaghan), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Excavation of the stormwater retention basin and installation of storm sewers is continuing
- Installation of curbs and grading of Areas 1 and 2 (95%)
- Work on 17th Street completed with exception of asphalt road repair

2. On-Going Work (9/10 – 9/15, including Saturday)

Final sub-grade preparation for asphalt.

- Asphalt installation on 9/14 and 9/15
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly

3. Projected Work

- Stormwater retention pond will continue, attempt to complete
- CQA testing including visual observation of sub-grade base and compaction testing
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/10-9/15	REPORT No. 6	PAGE No. 15
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install trench - **In Progress**
- Install concrete at trench **In Progress**
- Install crushed aggregate base coarse **In Progress**
- Install curbs - **In Progress**
- Install asphalt - **In Progress**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **In Progress**
- Install concrete - **In Progress**
- Raise existing manholes - **In Progress**
- Install crushed aggregate base coarse - **In Progress**
- Install curbs - **In Progress**
- Install manhole - **In Progress**
- Install asphalt - **In Progress**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **In Progress**
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/10-9/15	REPORT No. 6	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

Stormwater Retention Basin

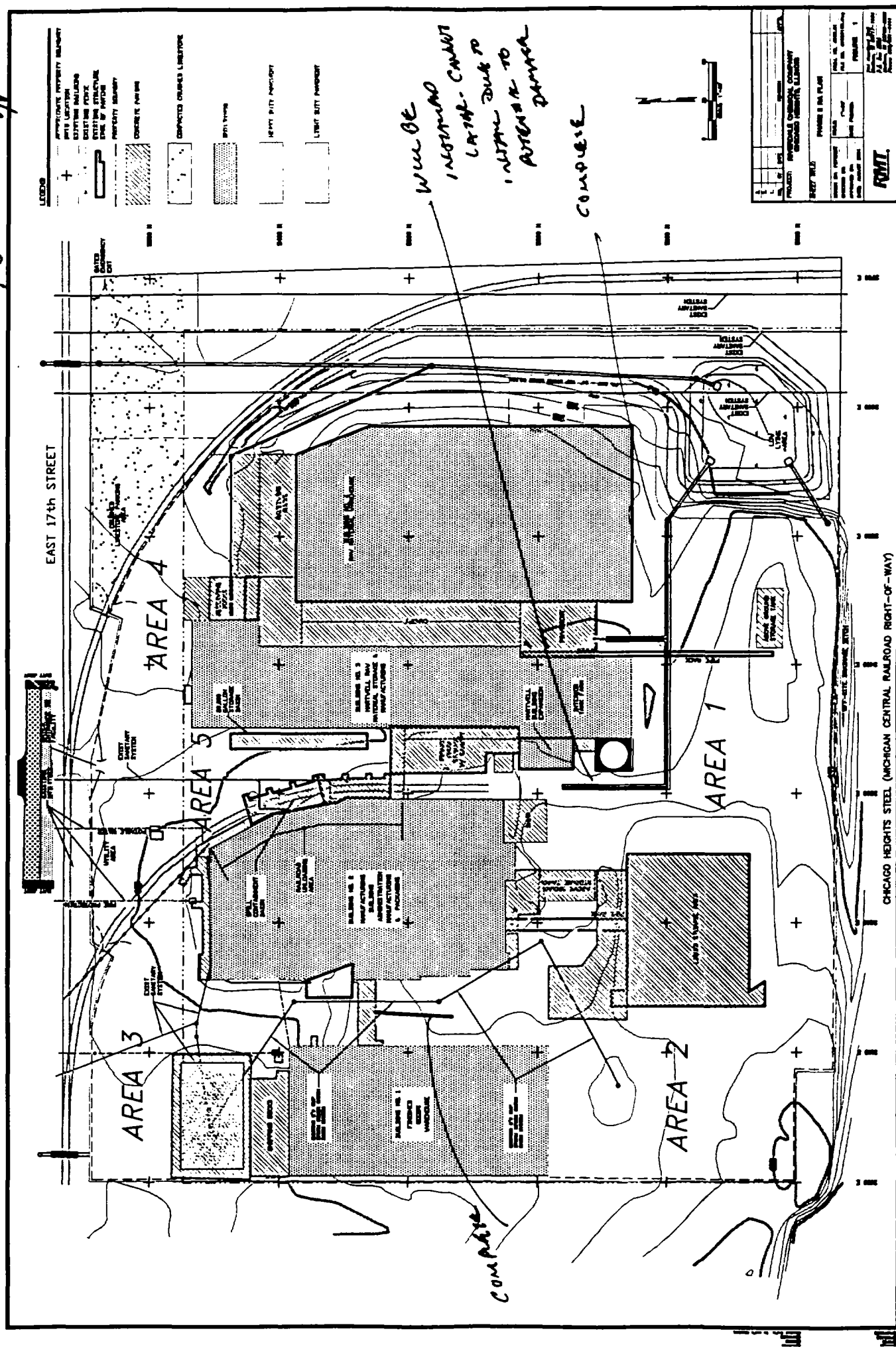
- Install manholes manholes and piping - **In Progress**
- Excavate retention basin - **In Progress**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **In Progress**
- Install 24" reinforced concrete pipe to manhole #5 - **In Progress**
- Reinstall fence - **In Progress**
- Grade retention basin - **In Progress**
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

9/13

2/6



PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/10-9/15	REPORT No. 6	PAGE No. 5 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

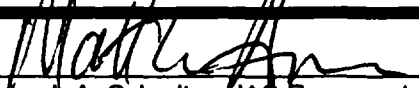

TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

9/10/01	Field Density Tests/Compaction Proofroll	Results range from 98.6 to 100% (98% minimum acceptable) No deflections occurred.
9/12/01	Concrete Placement Concrete Strength	Concrete cylinders and slump Cylinders tested at 7 days
9/13/01	Field Density Tests/Compaction Proofroll	Results range from 99 to 100% (98% minimum acceptable) No deflections occurred.
9/14/01	Field Density Tests/Compaction Proofroll Lab Test (Binder)	Results range from 88 to 95.5% (92% minimum acceptable) No deflections occurred. Density 158.5/3" Minimum Thickness

FIELD PROBLEMS:

Asphalt sample collected to address test results noted on 9/14. Refer to CQA Report.

Received by: 	Date: 10/8/01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 10/8/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☒

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☒

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. Wc 246

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-10-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

IN

Out

Charles Mulina	Mosbeck	6:15	
Ron Fischer	Mosbeck	6:15	
Lee K. DeYoung	Mosbeck	6:30	
KEN FISCHER	MOSBECK	6:45	
KEN ADAMS	MOSBECK	6:50	
T. MENDEZ	MOSBECK	6:50	
V. RIZZI	" "	6:50	
S. Tauldy	" "	6:00	
C. Tauldy	" "	6:00	
TOM WAZOWSKI	" "	7:00	
Salmon Z		7:00	
Curikoff		7:00	
STAN SIMON		7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR-4

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-11-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
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OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low		Med.		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	IN	Out
Carol Gulina mosbeck	6:00	
T. MENDEZ	" "	
K. FISCHER	6:10	
S. Judd	6:13	
T. De Young	6:30	
TOM LAZOWSKI	6:30	
V. RIZZI MOSBECK	6:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR #4

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-12-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear X		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70 X		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low X		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry X		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule

☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	IN	Out
Carol Gulmin	mosbeck	6:00
Ken Fischer	"	"
Tom LAZOWSKI	"	6:30
S. Taddei	"	6:45
Dean	Callaghan	6:57
Ryan	"	6:57
Chadler	"	6:59
Edouard Luis	"	7:00
John Sumi	"	7:00
Terry DeKang	mosbeck	6:45
T. MENDEZ	"	6:00
V. RIZZI	"	6:00

DAILY CONSTRUCTION REPORT

REPORT NO. WCR#46

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-13-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carol Gulnic	Mosbeck	5:50	
J. Munk		6:00	
V. Rizzo		6:00	
Dean	Callaghan	6:16	
Kay	Callaghan	6:16	
Chapman	Callaghan	6:10	
K. Fischer	Mosbeck	6:20	
S. Tully	Mosbeck	6:20	
TOM LAZOWSKI	MOSBECK	6:45	
C. Tuzio	"	6:45	
S. MATUSIK	"	"	
T. DeYoung	"	"	

DAILY CONSTRUCTION REPORT

REPORT NO. WCEB6

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-14-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow			
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up			
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High					
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid					

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		In	Out
Carlo Guline	Mosbeck	5:50	
Sam Jotabusk	"	"	
Ken Fischer	"	"	
Sajadeli	Mosbeck	5:55	
T. MENDEZ	"	6:00	
TOM LAZOWSKI	"	6:40	
C. Trividy	"	6:45	
L. DeKoning	Mosbeck	6:45	

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR-06

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-10-01	REPORT No. 8	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M <input checked="" type="checkbox"/>	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE: 10:50	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terrecon site visit report No. 56011049.00015		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in Areas 1 & 2 9 Test Results of Finished Aggregate Base fill ranging 98.6 to 100%+ compaction. Minimum acceptable result is 98%.
Proofroll		No deflections occurred.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Matt Anderson (JAS) Scott (Mosbeck)	Time:
SUBJECT/COMMENTS: Field results reported to both parties independently	
ACTION (IF NECESSARY):	

FIELD DENSITY TESTING

Report Number: 6601-348
 Date: September 16, 2017

WCEM
Terracon

1000 N. Dearborn Street
 Chicago, IL 60610
 (773) 378-8866

Client: Chicago Department of Transportation
 Attn: Matt E. Carson
 1601 South Dearborn Avenue
 Frankfort, IL 60423

Report Date: September 16, 2017
 Project: Riverdale Chemical Pavements
 220 E. 17th Street
 Chicago Heights

Project Number: 6601-348

Material Information

Material No.	Laboratory Test Method	Description and Classification	Soil Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (pcf) (at compaction)
1. 110490001	ASTM D-2922	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98
2. 110490002	ASTM D-3017	Gray sandy gravel, (CA-6) crushed limestone	9.4	133.2		96

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (pcf) (at compaction)
1	40' north x 30' of southwest corner area 2	F.A.B.	1	8"	8.4	136.1	98.0
2	40' north x 100' east of southwest corner area 2	F.A.B.	1	8"	6.4	137.1	99.3
3	150' north x 40' east of southwest corner area 2	F.A.B.	1	8"	5.5	140.5	100.0+
4	150' north x 120' east of southwest corner area 2	F.A.B.	1	8"	6.1	155.7	100.0+
5	40' north x 30' east of northwest corner area 2	F.A.B.	1	8"	7.3	138.6	100.0+
6	30' south x 120' east of northwest corner area 2	F.A.B.	1	8"	6.4	137.2	99.4
7	10' north x 100' west of southwest corner area 1	F.A.B.	1	8"	5.8	139.1	100.0+
8	10' north x 40' west of southwest corner of area 1	F.A.B.	1	8"	6.1	136.6	100.0+
9	60' north x 70' west of southwest corner of area 1	F.A.B.	1	8"	5.7	140.2	100.0+

Datum: F.A.B. - Finished Aggregate Base

Terracon representative observed aggregate basecourse being placed and compacted in Areas 1 and 2.

This report was prepared by Terracon, Inc. (Terracon) based on the data provided by the client. Terracon is not responsible for the accuracy of the data provided by the client. Terracon is not responsible for the accuracy of the data provided by the client. Terracon is not responsible for the accuracy of the data provided by the client.

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FIELD DENSITY TESTING

3. RESEARCH DESIGN

File # 100-44708-500-1040

REF : ACP 298 500 1029 000.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

The test was performed by placing a 5" thick loose lift and compacted with a vibratory tamping bar to form a second lift. The lift was formed with a nuclear density gauge, which indicated the lift meets project specifications of 98% using a standard Proctor value of 138.0 pcf. The contractor was informed of the test results.

Services - Per form in-place density and moisture content tests to determine degree of compaction and material moisture content.

File d Test: Method ASTM D2422, ASTM D3037

Figure 2

Final Results Reported by: Mary Anderson

[illegible]

1979: 11-2-79

Typed _____

Speed Distribution

Journal of Scientific Agriculture

Re: Bond 20

המחבר

The tests were performed in accordance with applicable ASTM, AASHTO, or DOT test methods. As reported herein, only for the use of the data reported on the performance of the material or product. While the use of Testcorp's facilities and equipment had been a part of the product development process, the data are not intended to represent the performance of the product or the properties of other substantially similar or identical products.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

W 12 46

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-12-01	REPORT No. 9	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T	W <input checked="" type="checkbox"/>	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER: Sunny						
REPORT PREPARED BY: Matthew Anderson		TEMP: 68-71						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terrecon site visit report No. 56011049.00012		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Concrete	Placement	Concrete cylinders, Sets 4,5 & 6C, A-D cast on Sept 5 th , 2001 by Terrecon.
		Concrete Slump: 6.0, 6.0, 5.5 Temperature: 78, 77, 78
		Air Content Gauge malfunction. No valid readings.
Concrete	Strenght	Cylinders tested @ 7 days: 9/12/01
		Sample 4C-A: Max Load:61,160 lbs, Strenght:2160 psi
		Sample 5C-A: Max Load:93,950 lbs, Strenght:3320 psi
		Sample 6C-A: Max Load:57,990 lbs, Strenght:2050 psi
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Scott (Mosbeck)	Time:
SUBJECT/COMMENTS: Field results reported	
ACTION (IF NECESSARY):	

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 66011049
 Service Date: September 5, 2001

9421 E. Terracon
 Morgan, IL 60450
 (708) 475-2222

Client: Joseph A. Schuch & Associates
 Attn: Matt Anderson
 19350 South Harlem Avenue
 Frankfort IL 60423

Report Date: September 10, 2001
 Project: Riverdale Chemical Pavements
 220 E. 17th Street
 Chicago Heights

Project Number: 66011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time: 9:24 am Plant: Mokena, IL
 Supplier: Ozings
 Truck No: 454 Ticket No: 35006
 Mix ID No: 4006
 Water Added Onsite Before Test: 5 Gallons
 Water Added Onsite After Test: 0 Gallons

Sample Information

Sample Time: 10:35 am Date Cast: September 5, 2001
 Technician: Macario Bernal
 Weather Conditions: Sunny
 Accumulative Yards: 110 of 10
 Placement Method: Direct Discharge
 Sample Locations: 20' South x 10' west of NE corner
 Placement Location: S.O.G. east of tank storage

Field Test Data

Test	Result	Specification
Slump, inches	5.5	
Air Content, %	N/A	
Concrete Temperature, °F	75	
Ambient Temperature, °F	71	
Elastic Unit Weight, pcf		

Laboratory Test Data

Set No	Specimen ID	Diameter (inches)	Area (sq.inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
6C	A	6.00	28.27	09/12/2001	7	57,990	2,050
6C	B			10/03/2001	28		
6C	C			10/03/2001	28		
6C	D			10/31/2001	55		

Comments:

No mix design submitted.
 Change malfunction on air content test.

Services: The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

Final Results Reported To: Scott
 Pickup made by Terracon.
 Technician: Macario Bernal

Report Distribution:
 To: Joseph A. Schuch & Associates

Reviewed by:

Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client as indicated above and shall not be relied upon for legal liability. The results are the property of Terracon. Test results transmitted hereinafter only apply to the specific project for which they were obtained and are not necessarily indicative of the properties of other apparently similar or identical materials.

Terracon

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: TR01114-0012
Service Date: September 11, 2001

8407 Enterprise Drive
Morton Grove, IL 60053
(708) 471-1000

Client: Joseph M. Sullivan & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Franklin Park, IL 60143

Report Date: September 11, 2001
Project: Riverdale Chemical Pavement
220 E. 17th Street
Chicago Heights, IL

Project Number: 56011048

Material Information

Sample Information

Specimen Strength: 4000 psi @ 28 Days

Sample Time: 8:25 am Date Cast: September 5, 2001

Technician: Macario Bernal

Weather Conditions: Sunny

Accumulative yardstick: 30

Placement Method: Direct Discharge

Sample Locations: 12' west x 5' north of SE corner

Placement Location: S.O.G. east of tank storage

Batch Time: 7:59 am Plant: Mokena, IL
Supplier: Quaker
Truck No: 455 Ticket No: 12903
Mix ID No: 4006
Water Added Onsite Before Test: 10 Gallons

Field Test Data

Test	Result	Specification
Slump, inches	5.0	
Air Content, %	N/A	
Concrete Temperature, °F	78	
Ambient Temperature, °F	67	
Plastic Unit Weight, pcf		

Laboratory Test Data

Set No	Specimen ID	Diameter (inches)	Age at Test (days)	Date Tested	Maximum Load (lbs)	Compressive Strength (psi)
40	A	6.00	28.27	09/12/2001	61,160	2,160
40	B			10/03/2001		
40	C			10/03/2001		
40	D			03/11/2001		

Comments

No mix design submitted.

Slough malfunction on air content test

Services: The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Cylinder, air, and temperature tests along with compressive strength samples were taken for the placement.

This report was prepared by the Terracon representative on the basis of the data provided by the client. The Terracon representative does not warrant the accuracy of the data provided by the client. The Terracon representative does not warrant the accuracy of the data provided by the client. The Terracon representative does not warrant the accuracy of the data provided by the client.

Terracon is not responsible for the accuracy of the data provided by the client. The Terracon representative does not warrant the accuracy of the data provided by the client. The Terracon representative does not warrant the accuracy of the data provided by the client.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCCB

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-13-01	REPORT No. 10	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH <input checked="" type="checkbox"/>	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE: 10:50	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00017		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in Areas 1 & 2 8 Test Results of Finished Aggregate Base fill ranging 99.0 to 100%+ compaction. Minimum acceptable result is 98%.
Proofroll		No deflections occurred.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: None		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Matt Anderson (JAS) Scott (Mosbeck)	Time:
SUBJECT/COMMENTS: Field results reported to both parties independently	
ACTION (IF NECESSARY):	

FIELD DENSITY TESTING

WCE 44

Terracon

Report Number: 56011049
 Service Date: September 18, 2001

2521 Riverside Drive
 Downers Grove, IL 60155
 (708) 478-8800

Client: Arthur E. Schindler & Associates
 111 West Hubbard
 10300 South Harlem Avenue
 Maywood, IL 60153

Report Date: September 18, 2001
 Project: Riverside Clinical Pavements
 220 E. 17th Street
 Chicago, Illinois

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (pcf, compaction)
1 110490001	ASTM D-2922	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98
2 110490002	ASTM D-3017	Gray sandy gravel, (CA-6) crushed limestone	9.4	133.2		98

Field Test Data

Test No.	Test Location	Finish Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (pcf, maximum)
1	Southwest corner of area 1	F.A.B.	1	8"	5.7	138.8	99.0+
2	60' east of corner of area 1	F.A.B.	1	8"	4.8	136.9	99.2
3	Southeast corner of area 1	F.A.B.	1	8"	5.1	141.2	100.0+
4	Northeast corner of area 1	F.A.B.	1	6"	6.7	142.3	100.0+
5	Northwest corner of area 1	F.A.B.	1	6"	5.2	137.4	99.6
6	40' north x 20' west of area 1	F.A.B.	1	6"	4.9	141.8	100.0+
7	20' north x 30' east of northeast corner of area 2	F.A.B.	1	8"	5.3	138.2	100.0+
8	100' north x west of northeast corner of area 2	F.A.B.	1	8"	6.4	136.6	99.0

Datum: F.A.B. = Finished Aggregate Base

Terracon representation arrived on-site and observed compaction on the 10-inch of aggregate base in place in Area 1 and the small outer regions of Area 1 and 2. The all material was being placed in lifts using a smooth drum roller for compaction. Testing was performed with a nuclear density gauge. The tests indicated that the 10 means the project compaction requirement is being met using a standard Proctor value of 135.0 pcf. The contractor was informed of the test results.

This report was prepared by Terracon Engineering, Inc. (Terracon) and is based on the data provided by the contractor. Terracon is not responsible for the accuracy of the data provided by the contractor. Terracon is not responsible for the accuracy of the data provided by the contractor. Terracon is not responsible for the accuracy of the data provided by the contractor. Terracon is not responsible for the accuracy of the data provided by the contractor.

... ..

Project Number: 2001040
Report Number: 200104019.0017

Gauge (D) = 21

1944 - 45

Finished 3:40 on:

Reviewed by:

2000 - 1950 :

— 22 —

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CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR #6

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-14-01	REPORT No 11	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00018		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2950, ASTM D2726	% Compaction	3" Asphalt Binder in Areas 1 & 2 22 Test Results of Asphalt Binder ranging 88.0 to 95.5%+ compaction. Minimum acceptable result is 92%.
Lab Test: ASTM D2950	Binder	Ref. Den. 158.5 / 3" Minimum Thickness
Proofroll	Final Agg. Base Proofroll	No deflections occurred.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: <i>Callaghan was notified of the two test areas that did not meet the required compaction values. Callaghan re-rolled the areas but was unsuccessful in increasing the compaction values. A sample of the asphalt was taken back to the lab if a test &/or verification of the big "D" and Marshall values is necessary to re-compute the field density. It is a possible deviation in the marshall values supplied by the contractor may have occurred.</i>		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Matt Anderson (JAS) Terrance Hoffman (JAS), Callaghan	Time:
SUBJECT/COMMENTS: Field results reported to both parties independently	
ACTION (IF NECESSARY): <i>Asphalt Samples collected will be tested to determine the marshall density values. If necessary, asphalt core samples will be taken for laboratory testing to verify field test results.</i>	

HMA FIELD DENSITY TESTING

Terracon

Report Number: 56011049-0018
Service Date: September 14, 2001

2421 Enterprise Drive
14 Avenue, Suite 200
P.O. Box 100000

Client: J. A. Schott & Associates
Attn: Matt Anderson
10350 South Harlem Avenue
Chicago, IL 60628

Report Date: September 16, 2001
Project: Riverside Old Orchard Pavement
220 E. 17th Street
Chicago, IL 60604

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description	Lab Test Data	Project Requirements		
			Reference Density (pcf)	Minimum Thickness (inches)	Minimum Compaction (%)	Maximum Compaction (%)
1. 110490001	ASTM D2950	Binder	158.5	3.00	92.0	96.0

Field Test Data

Test No.	Location	Pavement Lift	Mat. No.	Nuclear Density (pcf)	Comp. (%)
1	30' north x 10' east of northwest corner of area 1	1	1	150.1	94.7
2	40' north x 30' east of northwest corner of area 1	1	1	148.2	93.5
3	Northwest corner of area 1	1	1	148.9	93.9
4	100' east of northwest corner of area 1	1	1	147.0	93.1
5	Northeast corner of area 1	1	1	147.3	92.9
6	100' east of southwest corner of area 1	1	1	147.9	93.3
7	Southeast corner of area 1	1	1	149.6	94.1
8	20' north x 40' east of southwest corner of area 1	1	1	150.4	94.9
9	100' west of southwest corner of area 1	1	1	145.9	92.1
10	100' west x 40' north of southwest corner of area 1	1	1	139.0	88.0
11	40' west x 40' north of southwest corner of area 1	1	1	141.1	89.0
12	Southwest corner of area 1	1	1	142.7	90.9
13	Southwest corner of area 2	1	1	148.7	93.6
14	Southeast corner of area 2	1	1	147.5	93.1

This report is for informational purposes only and does not constitute a recommendation or approval of any product or service. The user of this report is responsible for the accuracy and completeness of the information provided. The user of this report is also responsible for the proper use of the information provided. The user of this report is also responsible for the proper use of the information provided.

FIELD DENSITY TESTING

WCEM
Terracon

Project Number: 00011047

Report Number: 00011047-01

Field Test Data

Test No.	Location	Pavement Lift	Mat No.	Nuclear Density (pcf)	Moisture (%)
15	30' north of southeast of area 2	1	1	149.6	94.0
16	100' north of southwest corner of area 2	1	1	151.3	93.5
17	100' south of northeast corner of area 2	1	1	149.3	94.2
18	Northwest corner of area 2	1	1	148.6	93.6
19	Northeast corner of area 2	1	1	149.1	94.1
20	50' south of northeast corner of area 2	1	1	148.3	93.8
21	100' north x 50' east of corner of area 2	1	1	147.7	93.2
22	120' north x 20' east of corner of area 2	1	1	150.2	94.8

Terracon representative visited the site to observe and test the placement of 3-inches of bituminous binder course for the parking lots in Areas 1 and 2. Twenty-two tests were taken using a nuclear density gauge. A big "D" of 2.64 was supplied by the contractor and a Marshall value of 158.5 pcf was used. Temperature tests were taken periodically with an average of 270 degrees. The tests concluded that the asphalt was compacted to the necessary average compaction of between 92 and 96% of the theoretical maximum Marshall density with the exception of some low compaction results due south of the storage tanks between Areas 1 and 2. A sample of the asphalt was returned to the laboratory in case further test runs requested by the client.

Services - Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.

Field Test Method: ASTM D2950, ASTM D2726

Gauge no. 142

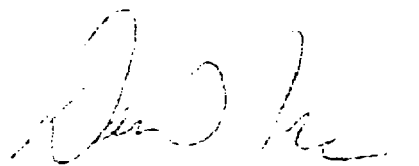
Field Results Reported By: Matt A. Brown

Contract No. 00011047

Project Distribution:

1 - Client 1 - Engineer 1 - Terracon

Reviewed by:


John P. Brown

The work was performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is given solely for the use of the client and should not be relied upon for any other purpose without the written permission of Terracon. Test results shown here are only applicable to the specific project and should not be interpreted as a guarantee of the properties of other apparently similar or identical projects.

REPORT OF PROOFROLL OBSERVATION

WCR#4
Tierracon

Report Number: TCR-001

Client: Terracon

Project: 19000 South Harlem Avenue

Report Date: 06/20/2011

Client: Joseph A. Schmitt & Associates

Report Date: 06/20/2011

220 E. 17th Street

Project: Riverdale 4-Channel Floodway

19000 South Harlem Avenue

220 E. 17th Street

Chicago, IL 60640

Chicago Heights

Project Number: 06011245

Services

Tierracon representative observed no deflection during the proofroll of aggregate basecourse in Areas 1 and 2 by Caution Paving. A fully loaded semi dump truck was used for the proofroll.

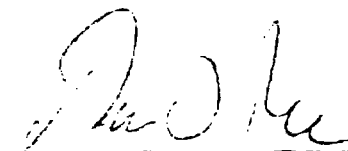
Field Results Reported To: Matt Anderson

Technician: Darin Frieing

Report Distribution

to Joseph A. Schmitt & Associates

Reviewed by



Darren Thomas

Tests were performed in accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client and is not to be used for any other purpose. Test results are not to be used for any other purpose. Test results are not to be used for any other purpose. Test results are not to be used for any other purpose.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 9/15 – 9/21/01	Report No. 7	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 60° F to 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 9/20/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete (small portion of trench drain/curbing will be installed at later date).

2. On-Going Work (9/15 – 9/21)

- Continueing work at stormwater retention pond – weather permitting.
- Install underground pipe between railroad unloading/containment (Area 4).
- Begin curbing work at railroad unloading/containment (Area 4).
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

3. Projected Work

- Stormwater retention pond will continue, attempt to complete.
- Trench work and concrete to be installed in front of raw materials warehouse (Area 4).
- Curb preparation/installation at Area 4 and Area 5.
- Stormsewer installation at west side of site (Area 3) including under 17th Street.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/17-9/21	REPORT No. 7	PAGE No. 2 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.
RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Partial Complete**
- Install concrete at trench – **Partial Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install asphalt - **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete - **Complete**
- Raise existing manholes - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install manhole - **Complete**
- Install asphalt - **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **Complete**
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west)
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/17-9/21	REPORT No. 7	PAGE No. 3/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain
- Install concrete
- Install curbs
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install curbs
- Install asphalt

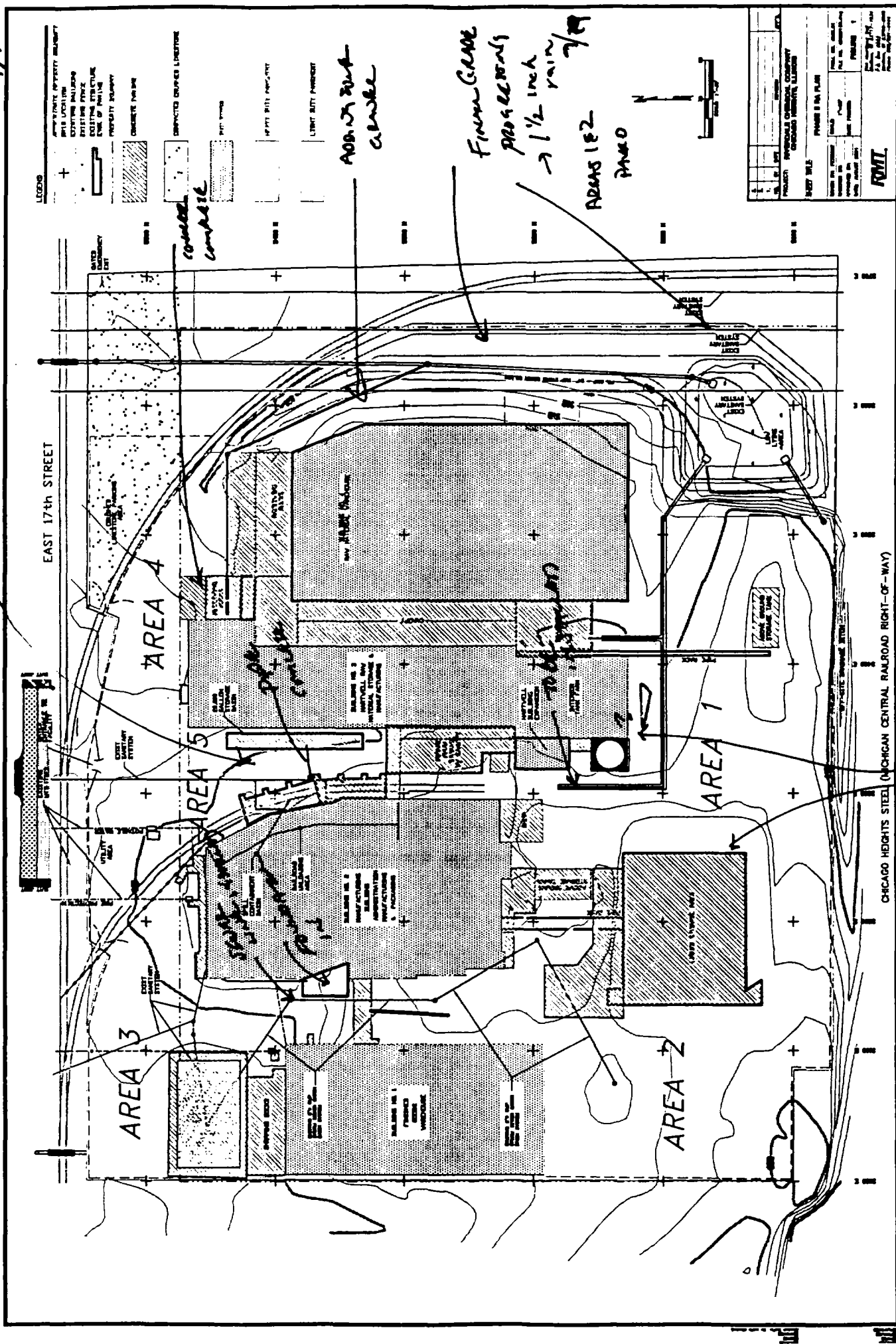
Stormwater Retention Basin

- Install manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence - **In Progress**
- Grade retention basin - **In Progress**
- Seed retention basin
- Install guard rail

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

Beginnings of class 9/20

 $\frac{4}{5}$ 

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/17-9/21	REPORT No. 7	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

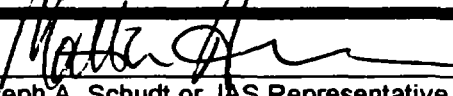

TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

9/15/01	Field Density Tests/Compaction Proofroll Lab Test (Surface)	Results range from 92.9 to 95.5% (92% minimum acceptable) No deflections occurred. Density 154.7/2" Minimum Thickness
9/17/07	Concrete Strength	Cylinders tested @28 days 3,620 and 4,120 (4000 req'd)

FIELD PROBLEMS:

Refer to CQA Report.

Received by: 	Date: 10/8/01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 10/8/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☒

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☒

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. 7

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-17-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun	Clear	Overcast	Rain	Snow		
REPORT PREPARED BY	Tom Lazowski	TEMP.		To 32	32-50	50-70	70-85	85 Up		
SIGNATURE	<i>Tom Lazowski</i>	WIND		Low	Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY		Dry	Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule

☐

PROG. SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

		IN	Out
Carlo Gulina	MOSBEC	6:00	
Chuck Twigg	"	7:00	
TOM LAZOWSKI	"	7:00	
Trudy		7:00	
T. DeKane	Mosbick	7:00	
J. Fashy	"	6:00	

DAILY CONSTRUCTION REPORT

REPORT NO. 7

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-18-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S		
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <u>Tom Lazowski</u>	WIND	Low	Med.	High						
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carol Gulina	mosbeck	6:00	
Ken Fischer	mosbeck	6:00	
C. T. WIPPY	II	6:45	
TOM LAZOWSKI	II	6:45	
J. MURPHY	" "	6:50	
T. DeBorja	mosbeck	6:50	
Swartzendruber	Mosbeck	6:00	

DAILY CONSTRUCTION REPORT

REPORT NO. 7

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-19-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

IN

Out

Carlos Mendez Mosbeck 6:00

Tom HAZOWSKI 11 6:30

TERRY DeYoung Mosbeck 6:45

Shirley Madsen " 7:00

Ken Fischer " 6:00

S. TWIDDY

DAILY CONSTRUCTION REPORT

REPORT NO. 7

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-20-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
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OWNER Nufarm	DAY	S	M	T	W	TH <input checked="" type="checkbox"/>	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70 <input checked="" type="checkbox"/>		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low <input checked="" type="checkbox"/>		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid <input checked="" type="checkbox"/>			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

Terry DeGany	Muesbeck	8:30
Tom LAZOWSKI	11	6:40
Ken Fischer	12	4:50
T. Mordy	Muesbeck	10:30
S. Twiddy		

DAILY CONSTRUCTION REPORT

REPORT NO. 7
~~9-20-01~~

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>9-20-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

		121	Out
Carlo Gulina	MOSBECK	6:00	
Ken Fischer	"	"	
S. Tuesday	"	"	
V. Rizzo	"	"	
TOM HAZOWSKI	"	6:35	
TERRY DELANEY	MOSBECK	6:35	
J. Mery	"	8:10	

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR#2

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-15-01	REPORT No. 12	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S <input checked="" type="checkbox"/>
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00022		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2950. ASTM D2726	% Compaction	2" Asphalt Surface in Areas 1 & 2 20 Test Results of Asphalt Binder ranging 92.9 to 95.5%+ compaction. Minimum acceptable result is 92%.
Lab Test: ASTM D2950	Surface	Ref. Den. 154.7 / 2" Minimum Thickness
Proofroll	Final Agg. Base Proofroll	No deflections occurred.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: <i>Some initial in-place density readings failed to reach the minimum acceptable levels. Callaghan was requested to re-roll those areas. Subsequent testing indicates proper compaction to an acceptable level. No further action is necessary.</i>		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Matt Anderson (JAS) Terrance Hoffman (JAS), Callaghan	Time:
SUBJECT/COMMENTS: Field results reported to both parties independently	
ACTION (IF NECESSARY):	

Terracon

1. 100-442800-100
 2. 100-442800-100
 3. 100-442800-100

Report Date: September 16, 2013
Project: Riverbend Off-Highway Project
226 E. 17th Street
Chicago, IL 60604

Material Information

Job Test Date	Project Requirements		
Reference	Minimum	Minimum	Maximum
Density	Thickness	Compaction	Compaction
(pcf)	(inches)	(%)	(%)
154.7	2.00	92.0	98.0

Field Test Data

Test No.	Location	Pavement Lift	Mat No.	Nuclear Density (pcf)	Comp. (%)
1	150' north x 20' east of northwest corner of area 1	2	1	145.8	94.2
2	90' north x 50' east of northwest corner of area 1	2	1	144.8	93.6
3	Northwest corner of area 1	2	1	146.7	94.6
4	120' east of northwest corner of area 1	2	1	143.9	93.0
5	Northeast corner of area 1	2	1	146.5	94.7
6	100' south x 100' west of northeast corner of area 1	2	1	147.8	95.5
7	80' south of northwest corner of area 1	2	1	145.2	93.9
8	Southwest corner of area 1	2	1	146.7	94.6
9	120' east of southwest corner of area 1	2	1	144.2	93.2
10	Southeast corner of area 1	2	1	145.1	93.5
11	150' west x 40' north of southwest corner area 1	2	1	143.9	93.0
12	10' west of southwest corner of area 1	2	1	144.2	93.2
13	Southeast corner of area 2	2	1	140.1	91.4
14	Southwest corner of area 2	2	1	144.0	93.1
15	150' north of southwest of area 2	2	1	143.7	92.9

[illegible]

FIELD DENSITY TESTING

Terracon

Project Number: 00000000000000000000

Project Number: 00000000000000000000

Report Number: 00000000000000000000

Field Test Data

Test No.	Location	Pavement Lf	Mat. No.	Nuclear Density (pcf)	Comp (%)
16	150' north of southeast corner of area 2	2	1	143.6	92.6
17	Northwest corner of area 2	2	1	144.8	93.6
18	Northeast corner of area 2	2	1	143.9	93.0
19	150' north x 20' east of northeast corner of area 2	2	1	145.1	93.8
20	100' north of northwest corner of area 2	2	1	148.2	94.6

Terracon representative visited the site to observe and test the placement of 2-inches of surface asphalt in Areas 1 and 2. Twenty tests were taken using a nuclear density gauge. A big "D" of 2.48 was supplied by the contractor (Carrigan) and a Marshall value of 154.7 pcf was used. Temperature tests were taken periodically with an average reading of 275 degrees. The tests concluded that the asphalt was compacted to the necessary compaction specifications of between 92 to 96% using a Marshall value of 154.7 pcf. A sample of the asphalt was taken for laboratory testing if requested by the client.

Services - Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.

Field Test Method: ASTM D2950, ASTM D2726

Page ID: 42

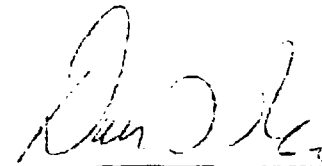
Field Results Reported To: Matt Anderson

Technician: Devin Fleming

Report Distribution:

(1) Joseph A. Anderson, President

Reviewed by:



Devin Fleming

These tests were performed in general accordance with applicable AASHTO, AASHTO, or DOT test methods. This report is exclusively for the use of the client and is not to be reproduced, stored, or used for any other purpose without the written approval of Terracon. Test results may vary from those reported to the actual conditions tested at the location. These results are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR#7

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-17-01	REPORT No 13	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00004 with the 28 day test results.		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Concrete	Strenght	Cylinders tested @ 28 days: Cast Date: 8/20/01
		Sample 1C-B: Max Load:99,650 lbs, Strenght:3520 psi
		Sample 1C-C: Max Load:105,060 lbs, Strenght:3720 psi
		Average Compressive Strenght = 3,620 < 4000 Req'd
		Sample 2C-B: Max Load:116,720 lbs, Strenght:4130 psi
		Sample 2C-C: Max Load:115,920 lbs, Strenght:4100 psi
		Average Compressive Strenght = 4,120 > 4000 Req'd
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: Concrete Design specified is 4000 psi @ 28 days. Sample 1C doesn't meet the design requirements. One additional cylinder was cast and is due to be tested on 10/15. Further action will be determined at that time.		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Matt Anderson (JAS) Terrance Hoffman (JAS), Callaghan, Mosbeck	Time:
SUBJECT/COMMENTS: Field results reported to both parties independently.	
ACTION (IF NECESSARY): Notification of failure on 9/20/01 sent ot Callaghan and Mosbeck.	

WCR#2

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 56011049

Service Date: August 20, 2001

1875 Franklin Drive
Franklin, IL 60437
(708) 294-6999Client: Joseph A. Schuch & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Franklin, IL 60423

Report Date: September 12, 2001

Project: Riverbend Chemical Pavements
220 E. 7th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time:

Supplier: Condo

Truck No:

Ticket No:

Mix ID No:

Sample Information

Sample Time: Date Cast: August 20, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method: Direct Discharge

Sample Locations: North of tank storage area

Placement Location: Exterior pavement

Field Test Data

Test	Result	Specification
Slump (inches)		
Air Content (%)		
Concrete Temperature (°F)		
Air Temperature (°F)		
Relative Humidity (%)		

Laboratory Test Data

Age	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
28	A	6.00	28.27	08/27/2001	7	93,150	3,290
28	B	6.00	28.27	09/17/2001	28	116,720	4,130
28	C	6.00	28.27	09/17/2001	28	115,920	4,100
					Average		4,120
28	D			10/15/2001	56		

Comments

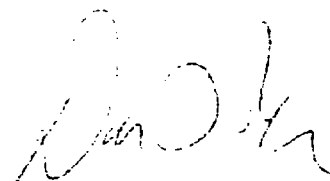
No material submitted

Contractor: CONTRACTOR

Report Distribution

Joseph A. Schuch & Associates

Reviewed by:



Peter Thomas

Tests were performed in accordance with applicable ASTM, ACI, or DOT test methods. This report was prepared by the laboratory and is not to be used as a basis for any legal action. The results of the tests are only valid for the samples tested and are not to be used as a basis for any other action. The results of the tests are only valid for the samples tested and are not to be used as a basis for any other action.

WCR#7

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 56011845

Service Date: August 20, 2001

Client: Joseph A. Schuch & Associates

Attn: Matt Anderson

19350 South Harlem Avenue

Franklin, IL 60428

Report Date: September 18, 2001

Project: Riverdale Chemical Pavements

220 E. 17th Street

Chicago Heights

Project Number: 56011845

Material Information

Specified Strength:

Batch Time: 8:12 pm Plant: Chicago Heights I

Supplier: Daniel

Truck No.: 505

Truck No.: 352nd

Job No.: 112

Sample Information

Sample Time: 12:35 pm Date Cast: August 20, 2001

Technician: Macario Bernal

Weather Conditions: Partly Cloudy

Accumulative Yards: 50

Placement Method: Direct Discharge

Sample Locations: 5' north of west main guardrail

Placement Location: Exterior pavement north of tank storage area

Field Test Data

Test	Result	Specification
Slump, inches	5.0	
Air Content, %	7.4	
Concrete Temperature °F	80	
Ambient Temperature °F	75	
Plastic Unit Weight,pcf		

Laboratory Test Data

No.	Location	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
1C	A	6.00	28.27	08/27/2001	7	94,990	3,580
1C	B	6.00	28.27	09/17/2001	28	99,650	3,520
1C	C	6.00	28.27	09/17/2001	28	105,060	3,720
					Average		3,620
1C	D			10/15/2001	56		

Comments

into tank design (submitted)

Services: The Terracon representative was on site to observe and test the placement of concrete for the above mentioned location. Slump, air, and temperature were taken and with compressive strength samples were taken for the placement.

Field Results Reported to: Tom LeVasseur

Reviewed by: Matt Anderson

Technician: Macario Bernal

Report Distribution:

1 - Joseph A. Schuch & Associates

Reviewed by:

Macario Bernal

This report was prepared by the Terracon representative on the basis of the information furnished by the client. The Terracon representative does not assume any liability for the accuracy or completeness of the information furnished by the client. The Terracon representative is not responsible for the design or construction of the project. The Terracon representative is not responsible for the results of the test. The Terracon representative is not responsible for the results of the test. The Terracon representative is not responsible for the results of the test.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 9/24 – 9/28/01	Report No. 8	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 60° F to 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 9/27/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete (small portion of trench drain/curbing will be installed at later date).

2. On-Going Work (9/24 – 9/28)

- Stormwater retention pond will continue, attempt to complete.
- Trench work and concrete to be installed in front of raw materials warehouse (Area 4).
- Curb preparation/installation at Area 4 and Area 5.
- Stormsewer installation at west side of site (Area 3) including under 17th Street.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

3. Projected Work

- Curb installation at Area 4 and Area 5.
- Scarification and sub-grade base preparation in Area 4 and Area 5.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/24-9/28	REPORT No. 8	PAGE No. 2/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Partial Complete**
- Install concrete at trench – **Partial Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install asphalt - **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete - **Complete**
- Raise existing manholes - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install manhole - **Complete**
- Install asphalt - **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **Complete**
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11 – **In Progress**
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 - **Complete**
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/24-9/28	REPORT No. 8	PAGE No. 3 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain– **In Progress**
- Install concrete– **In Progress**
- Install curbs– **In Progress**
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs– **In Progress**
- Install asphalt– **In Progress**

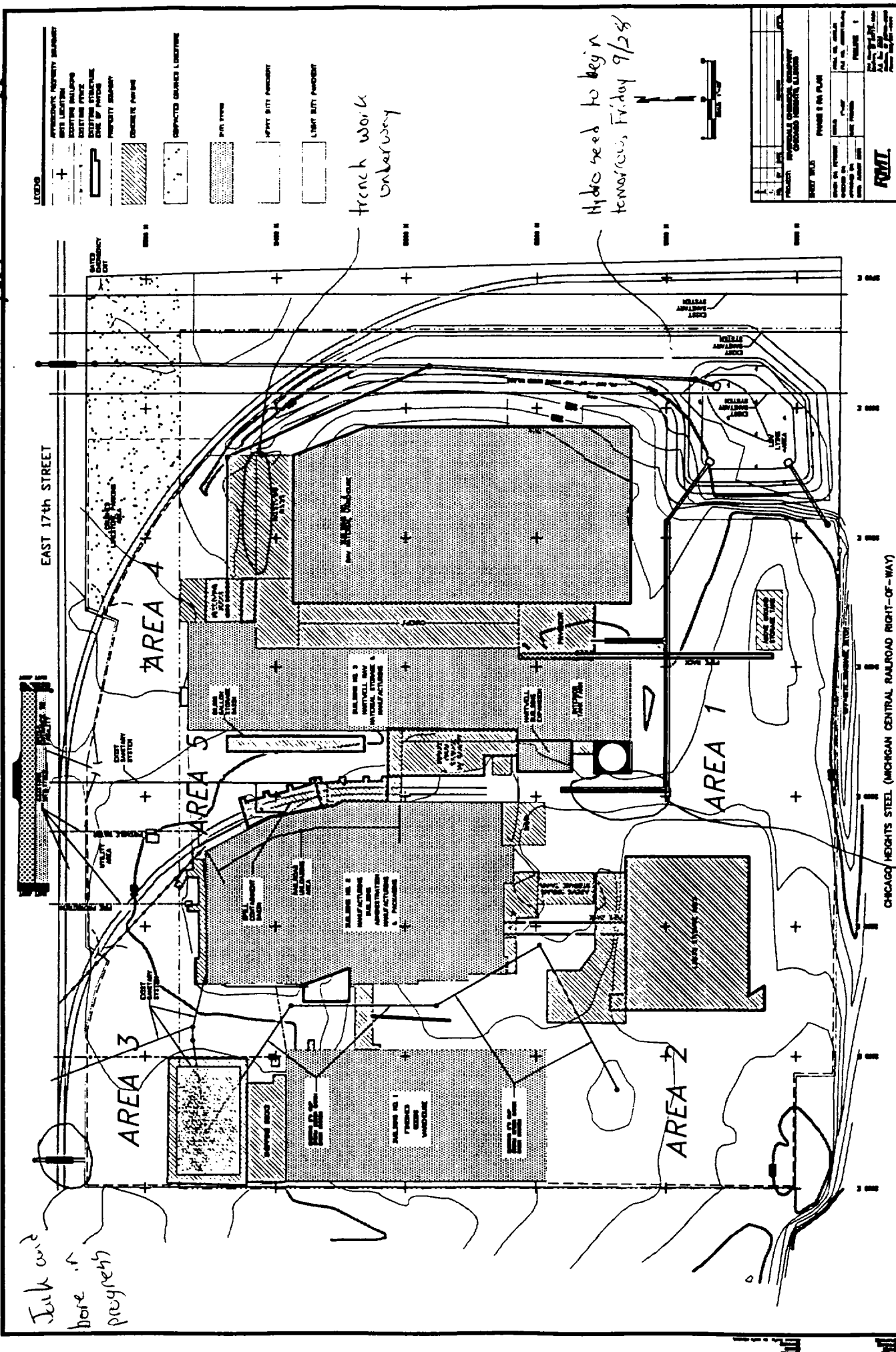
Stormwater Retention Basin

- Install manholes manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence - **Complete**
- Grade retention basin - **Complete**
- Seed retention basin
- Install guard rail
- Install catch basin #8 & 12 inch pipe to sewer

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

9/27 4/5



PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/24-9/28	REPORT No. 8	PAGE No. 5 / ✓
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.



TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

9/25/01	Asphalt (Big D)	90 to 97%, Average 95%

FIELD PROBLEMS:

Overall the binder course meets or exceeds the project specifications and no further testing is warranted.

Received by: 	Date: 10/8/01
Matt Anderson, Joseph A. Schudt of JAS Representative	
Approved by: 	Date: 10/8/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 9-2-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
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OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		In	Out
Carlo Gulina	Musbeck	5:45	
Ken Fischer	"	"	
Tom LAZOWSKI	"	6:35	
S. Ott	"	6:20	
KEN ADAMS	"	6:41	
C. T. WOOD	"	6:50	
T. DeYoung	"	6:50	
T. Mally	"	7:00	
S. Widdell	"	8:00	
V. Rizzo	"	6:50	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 9-25-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun	Clear	Overcast	Rain			Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.		To 32	32-50	50-70		70-85		85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND		Low	Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY		Dry	Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	IN	OUT
TOM LAZOWSKI MOS BECK	6:30	
KEN ADAMS "	6:45	
Carli Gulini "	6:55	
Joan R. Judy "	6:55	
TERRY DeYoung "	6:55	
T. MENDOZA "	7:00	
K. Fischer "	5:40	
J. Judy "	6:45	
C. Gulina "	6:45	
V. Rizzi	6:50	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 9-26-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear	Overcast		Rain	Snow	
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50	50-70		70-85	85 Up	
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carol Guline	mesbeck	6:45	
KRM ADAMS	"	6:50	
T. MENDEZ	" "	7:00	
TERRY DeWitt	"	6:50	
TOM LAZOWSKI	"	7:30	
Sam MATUSIK	"	6:50	
Jim Smith	"		
Tim Buff	Orange Eng.	7:15	12:50
Paul Osterman	"	9:15	12:50
Scott Tully		9:00	3:15
V. Rizzo		6:50	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 9-27-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
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OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	mosbee	6:00	
Ken Fischer	"	"	
Scott Lushley	"	6:30	
Chuck Twiddle	"	6:30	
TOM LAZOWSKI	11	6:42	
Ivan Russell	11	6:45	
KEN ADAMS	"	6:50	
SAM MATOSIK	"	"	
Todd Schinner	"	7:30	
Terry Deyong	11	6:50	
Uzzi		6:50	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 9-28-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast X		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70 X		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low X		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod X		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

Kenn Fesch	Mos Beck	6:30
Ferry Deyoung	"	"
Dean Vermeulen	Callaghan	6:30
Thomp Gentile	Callaghan 10	6:30
Ivan Russell	Mos Beck	6:30
Tom LAZOWSKI	"	6:30
KEN ADAMS	"	6:45
SAM MATUSIK	"	"
T. MENDEZ	"	7:00
V RIZZI	"	7:00

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 7-29-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

Name / Company	IN	Out
Carol Gulina Masbeck	6:00	
Karen Fischler	-	
Alma Russell	11	6:00
Scott Trevino	11	6:45
T. Mundy		7:00
V. Rizzi	"	7:00

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962 01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 9-25-01	REPORT No 14	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M <input checked="" type="checkbox"/>	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon letter dated September 26, 2001 regarding the Asphalt Binder specific density tests.		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Asphalt	Specific Density (Big "D") ASTM D-2041	Laboratory Test Results of hot mix asphalt binder: Big "D": 2.503 - Differs from Contractor Supplied Number of 2.54.
		Corrected Field Density Values increased to 90 to 97%. One value is below the minimum of 91. Average Density 95%
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: IDOT Specifications for asphalt density dictate that the asphalt ranges from 92 to 95 percent with no one value below 91%. With the corrected Big "D" value, one testing location still is below 91 (Actual value of 90). A minor deviation in material may have occurred in the specific location that the test took place. Overall, the binder course meets or exceeds the project specifications and no further testing is warranted.		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Matt Anderson (JAS) Callaghan, Mosbeck, RMT, & Riverdale	Time:
SUBJECT/COMMENTS: Copy of Field results reported to both parties independently.	
ACTION (IF NECESSARY): No further action necessary.	

Terracon

Summary of Field Density Test Results on Asphaltic Concrete ASTM D2950

9427 Enterprise Drive
Mokena IL 60418
(708) 478-8868

Client Name:	Joseph A. Schuch & Associates	Project Number:	56011045	Date:	9/15/01
Address:	Frankfort, IL	Test method for			
		Laboratory Density:	ASTM D-2950		
Project Name:	Riverdale Chemical Plant Pavements	Mix Type:	Binder		
Location:	Chicago Heights, IL	Field Technician:	DF		
Comments:	Binder course for Area 1 and 2	Gauge ID:		Model:	Backscat
	Test results using Blq. D' of 2.502	Reviewed by:	DLT		

Test No.	Date	Location	Course	Design Thickness (inches)	Field Density (%)	Lab Density (%)	Lab Density (%)	With Thin-Lift Correction
1	9/14/01	30' East north x 10' feet east of N.W. corner of Area 1	Binder	3.0	150.1	156.2	96	96
2	9/14/01	40' North x 30' East of N.W. corner of Area 1	Binder	3.0	148.2	156.2	95	95
3	9/14/01	Northwest corner of Area 1	Binder	3.0	148.9	156.2	95	96
4	9/14/01	100' East of N.W. corner of Area 1	Binder	3.0	147.6	156.2	95	95
5	9/14/01	Northeast corner of Area 1	Binder	3.0	147.3	156.2	94	95
6	9/14/01	100' East of S.W. corner of Area 1	Binder	3.0	147.9	156.2	95	95
7	9/14/01	Southeast corner of Area 1	Binder	3.0	146.6	156.2	95	96
8	9/14/01	20' North x 40' East of S.W. corner of Area 1	Binder	3.0	150.4	156.2	96	97
9	9/14/01	100' West of S.W. corner of Area 1	Binder	3.0	145.9	156.2	93	94
10	9/14/01	100' West x 40' North of S.W. corner of Area 1	Binder	3.0	139.6	156.2	89	90
11	9/14/01	40' West x 40' North of S.W. corner of Area 1	Binder	3.0	141.1	156.2	90	91
12	9/14/01	S.W. corner of Area 1	Binder	3.0	142.7	156.2	91	92
13	9/14/01	S.W. corner of Area 2	Binder	3.0	146.7	156.2	93	95
14	9/14/01	S.E. corner of Area 2	Binder	3.0	147.5	156.2	94	95
15	9/14/01	50' North of S.E. corner of Area 2	Binder	3.0	149.0	156.2	95	96
16	9/14/01	100' North of S.W. corner of Area 2	Binder	3.0	151.3	156.2	97	97
17	9/14/01	100' South of N.E. corner of Area 2	Binder	3.0	149.3	156.2	96	96
18	9/14/01	N.W. corner of Area 2	Binder	3.0	148.6	156.2	95	95
19	9/14/01	N.E. corner of Area 2	Binder	3.0	149.1	156.2	95	96
20	9/14/01	50' North of N.E. corner of Area 2	Binder	3.0	149.2	156.2	95	95
21	9/14/01	100' North x 50' East of corner of Area 2	Binder	3.0	147.7	156.2	95	95
22	9/14/01	20' North x 20' East of corner of Area 2	Binder	3.0	150.2	156.2	96	96

September 26, 2001

Terracon

4407 Enterprise Dr.
Mokena, IL 60449
Toll Free 877-886-8867 Fax (708) 475-8867

Joseph A. Schudt & Associates
13950 South Harlem Avenue
Frankfort, IL 60423

Attn: Matthew C. Anderson

**RE: Area 1 and 2 Parking Lot Asphalt Testing
Riverdale Chemical Pavements
Chicago Heights, Illinois
Terracon No. 56011049**

Dear Mr. Anderson:

Pursuant to your request, representatives of Terracon, Inc. are performing materials observation and testing services for the referenced project. Recently, our representative observed and tested binder course asphaltic cement concrete placed for the Area 1 and 2 parking lots. During testing, our representatives obtained low compaction test results in one area (see attached Summary of Field Density Test Results). The low results were discussed with representatives of the contractor and JAS in the field at the time of testing, and were also reported in our daily field report that was previously transmitted to you. This letter discusses the original field compaction test results, results of subsequent laboratory testing, and our observations and conclusions regarding the compaction of these areas based on the new laboratory test data.

Asphaltic Cement Concrete Field Testing

On September 14, 2001, a representative of Terracon performed in-place density tests on a 3-inch thick layer of recycled binder material placed in Areas 1 and 2. Tests were performed with a nuclear density gauge. A total of 22 tests were performed. A field Big "D" value of 2.54 was used to determine the maximum theoretical density of the asphalt binder material. The Big "D" value was provided to our representative by the contractor in the field. The compaction results were reported to the contractor and to representatives of JAS. Based on our test results, which originally did not include a thin lift correction, the average percent compaction value was about 93 percent of the maximum theoretical density, with tests ranging from 88 to 95 percent. For reference, IDOT specifies an average of 92 to 96 percent of the maximum theoretical Marshal density, with no individual tests below 91 percent. The temperature of the asphalt was also periodically monitoring during placement. The temperature of the mix averaged about 270 degrees. Our representative also collected a hot sample of the material from the trucks during placement for subsequent laboratory testing.

Riverdale Chemical Pavements
Project No. 56011049
Page 2

Asphaltic Cement Concrete Laboratory Testing

Because of the low field results at three test locations (Test Nos. 10, 11, and 12), we were requested to perform a specific gravity (Big "D") test on the hot sample our representative obtained in the field. The results of the specific gravity test indicated the material's Big "D" is 2.503.

Using the Big "D" of 2.503 obtained in our laboratory, and applying a thin lift correction to compensate for the lower density aggregate base course below the asphalt, the compaction ranges from 90 to 97 percent, with an average of 95 percent, with only one test result below 91 percent (No. 11 was 90 percent), which would substantially meet project requirements.

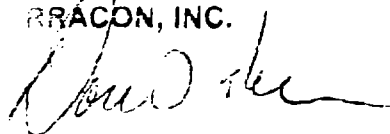
Observations and Conclusions

Based on the field and laboratory test results, in our opinion, the binder appears to have been satisfactorily compacted, with the exception of one test result that it was significantly lower in density than allowed by the project specifications. It is possible that a material variation occurred at the area where low test results were obtained. Also, please note that densities obtained by the nuclear method are only estimates of the actual density. Nuclear testing is usually sufficient to determine that compaction meets project specifications. In situations where actual field densities are required, then coring followed by laboratory testing for density is needed.

The field compaction results from September 15 indicate that the surface course asphalt placed in Areas 1 and 2, including the area where low densities were obtained in the binder course, has been satisfactorily compacted, and meets or exceeds project specifications for compaction.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this letter, or if we may be of further service to you in any way, please do not hesitate to contact us.

Respectfully,
TERRACON, INC.



Daren L. Thomas, P.E.
Office Manager

Attachments: Summary of Field Density Test Results on Asphaltic Concrete

Copies: Addressee (2)



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 10/1 – 10/5/01	Report No. 9	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 60° F to 70° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 10/4/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete (small portion of trench drain/curbing will be installed at later date).

2. On-Going Work (10/1 – 10/5)

- Stormwater retention pond will continue, attempt to complete.
- Trench work and concrete to be installed in front of raw materials warehouse (Area 4).
- Curb preparation/installation at Area 4 and Area 5.
- Stormsewer installation at west side of site (Area 3) including under 17th Street.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

3. Projected Work

- Curb installation at Area 4 and Area 5.
- Scarification and sub-grade base preparation in Area 4 and Area 5.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/1-10/5	REPORT No. 9	PAGE No. 245
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Partial Complete**
- Install concrete at trench – **Partial Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install asphalt - **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete - **Complete**
- Raise existing manholes - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install manhole - **Complete**
- Install asphalt - **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **Complete**
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11 – **In Progress**
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 - **Complete**
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/1-10/5	REPORT No. 9	PAGE No 3 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain– **In Progress**
- Install concrete– **In Progress**
- Install curbs– **In Progress**
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs– **In Progress**
- Install asphalt– **In Progress**

Stormwater Retention Basin

- Install manholes manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence - **Complete**
- Grade retention basin - **Complete**
- Seed retention basin
- Install guard rail
- Install catch basin #8 & 12 inch pipe to sewer

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/1-10/5	REPORT No. 9	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.



TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

10/3	Concrete/Strength	Samples 4 (4,460), 5 (4,230), 6 (4,070) - Passed (Required 4000)
10/5	Concrete/Strength	Samples 7 (4,570), 8 (6,490), 9 (4,640) - Passed (Required 4000)

FIELD PROBLEMS:

There are no field problems to report.

Received by:	Date: 
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 10/11/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-1-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER	Nufarm	DAY	S	M <input checked="" type="checkbox"/>	T	W	TH	F	S		
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.		To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND		Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY		Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	mosloect	6:00	
Tom HAZOWSKI	"	6:35	
Vince Rizzi	"	6:40	
Jeff DeKam	"	6:40	
KEN ADAMS	"	6:50	
Ch. YWIPPOV	"	"	
Ken Eschler	"	"	
Scott Fung	"	7:00	
T. Mendez		7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-02-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
CATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear <div style="text-align: center;">X</div>		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70 <div style="text-align: center;">X</div>		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low <div style="text-align: center;">X</div>		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry <div style="text-align: center;">X</div>		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

Carlo Gullina	Mosbeck	6:00
Ken Jensen	"	"
Tom LAZOWSKI	"	6:30
V. Rizer	"	"
KEN ADAMS	"	6:50
Scott Tinkler	"	7:00
T. MENDER	"	"
C. TIDDY	"	"
T. DeGony	"	"
T. Schichler	"	11:30

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-3-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
CATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	Out
Charles Gulinia Mosbeck	6:00	
Ken Fischer	"	"
Tom LAZOWSKI	"	6:30
Vince Rizzo	"	
KEN ADAMS	"	6:50
T. MENDEZ	"	"
C. FORD	"	"
T. DeYoung	"	"
S. Luridy	"	7:00
T. Schickner	"	7:30

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-4-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
-----------------------------------	---------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
	REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	IN	Out
Carlo Gulina MOSBECK	6:00	
Ken Fischer		
KRN ADAMS	"	6:40
V Rizzi	"	"
TOM LAZOWSKI	"	6:40
T. MENDEZ	"	"
J Schichner	"	7:00

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-3-01	REPORT No. 14	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W <input checked="" type="checkbox"/>	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00012 with the 28 day test results.
REQUESTS FROM CONTRACTOR (with respect to testing): None

TESTING PERFORMED/SAMPLES COLLECTED		
Concrete	Strenght	Cylinders tested @ 28 days: Cast Date: 8/20/01
		Sample 4C-B: Max Load:127,480 lbs, Strenght:4510 psi
		Sample 4C-C: Max Load:126,310 lbs, Strenght:4470 psi
		Average Compressive Strenght = 4,460 > 4000 Req'd
		Sample 5C-B: Max Load:125176 lbs, Strenght:4430 psi
		Sample 5C-C: Max Load:113,630 lbs, Strenght:4020 psi
		Average Compressive Strenght = 4,230 > 4000 Req'd
		Sample 6C-B: Max Load:112,990 lbs, Strenght:4000 psi
		Sample 6C-C: Max Load:117,090 lbs, Strenght:4140 psi
		Average Compressive Strenght = 4,070 > 4000 Req'd

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS:	
ACTION (IF NECESSARY): None	

CONCRETE COMPRESSIVE STRENGTH TEST**Terracon**

Report Number: 56011049.0012
 Service Date: September 5, 2001

3421 Enterprise Drive
 Mokena, IL 60449
 (708) 478-8867

Client: Joseph A. Schuch & Associates
 Attn: Matt Anderson
 13350 South Harlem Avenue
 Frankfort IL 60423

Report Date: September 18, 2001
 Project: Riverdale Chemical Pavements
 220 E. 17th Street
 Chicago Heights

Project Number: 56011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time: 7:59 am Plant: Mokena, IL

Supplier: Ozinga

Truck No: 366

Ticket No. 32993

Mix ID No.: 4005

Water Added Onsite Before Test: 10 Gallons

Sample Information

Sample Time: 8:25 am Date Cast: September 5, 2001

Technician: Darin Frieling

Weather Conditions: Sunny

Accumulative Yards: 30 or 130

Placement Method: Direct Discharge

Sample Locations: 12' west x 5' north of SE corner

Placement Location: S.O.G. east of tank storage

Field Test Data

Test	Result	Specification
Slump, inches	5.0	
Air Content, %	N/A	
Concrete Temperature, °F	78	
Ambient Temperature, °F	67	
Plastic Unit Weight, pcf		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
4C	A	6.00	28.27	09/12/2001	7	61,160	2,160
4C	B	6.00	28.27	10/03/2001	28	127,450	4,510
4C	C	6.00	28.27	10/03/2001	28	126,310	4,470
					Average		4,490
4C	D			10/31/2001	56		

Comments:

No mix design submitted.

Gauge malfunction on air content test.

Services - The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST**Terracon**

Report Number: 56011049.0012
 Service Date: September 5, 2001

9427 Enterprise Drive
 Mokena, IL 60448
 (708) 478-8888

Client: Joseph A. Schudt & Associates
 Attn: Matt Anderson
 19350 South Harlem Avenue
 Frankfort IL 60423

Report Date: September 18, 2001
 Project: Riverdale Chemical Pavements
 220 E. 17th Street
 Chicago Heights

Project Number: 56011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time: 7:00 am Plant: Mokena, IL

Supplier: Ozinga

Truck No: 952

Ticket No: 33001

Mix I.D. No.: 4006

Water Added Onsite Before Test: 0 Gallons

Water Added Onsite After Test: 0 Gallons

Field Test Data

Test	Result	Specification
Slump, inches:	5.0	
Air Content, %:	N/A	
Concrete Temperature, °F:	77	
Ambient Temperature, °F:	68	
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
5C	A	6.00	28.27	09/12/2001	7	93,850	3,320
5C	B	6.00	28.27	10/03/2001	28	125,176	4,430
5C	C	6.00	28.27	10/03/2001	28	113,630	4,020
					Average		4,230
5C	D			10/31/2001	56		

Comments:

No mix design submitted.

Gauge malfunction on air content test.

Services - The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

No tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST

Terracon

Report Number: 56011049.0012
 Service Date: September 5, 2001

9427 Enterprise Drive
 Mokena, IL 60449
 (708) 478-8868

Client: Joseph A. Schudt & Associates
 Attn: Matt Anderson
 19350 South Harlem Avenue
 Frankfort, IL 60423

Report Date: September 18, 2001
 Project: Riverdale Chemical Pavements
 220 E 17th Street
 Chicago Heights

Project Number: 56011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time: 9:44 am Plant: Mokena, IL

Supplier: Ozinga

Truck No.: 454

Ticket No: 33006

Mix I.D. No.: 4006

Water Added Onsite Before Test: 5 Gallons

Water Added Onsite After Test: 0 Gallons

Sample Information

Sample Time: 10:35 am Date Cast: September 5, 2001

Technician: Macario Bernal

Weather Conditions: Sunny

Accumulative Yards: 110 of 13

Placement Method: Direct Discharge

Sample Locations: 20' South x 10' west of NE corner

Placement Location: S.O.G. east of tank storage

Field Test Data

Test	Result	Specification
Slump, inches	5.5	
Air Content, %	N/A	
Concrete Temperature, ° F	78	
Ambient Temperature, ° F	71	
Plastic Unit Weight, pcf		

Laboratory Test Data

Set No	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
6C	A	6.00	28.27	09/12/2001	7	57,990	2,050
6C	B	6.00	28.27	10/03/2001	28	112,990	4,000
6C	C	6.00	28.27	10/03/2001	28	117,090	4,140
					Average		4,070
6C	D			10/31/2001	56		

Comments:

No mix design submitted.

Gauge malfunction on air content test.

Services - The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

Field Results Reported To: Scott

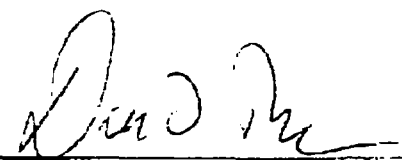
Samples made by Terracon.

Technician: Macario Bernal

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-5-01	REPORT No. 15	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F <input checked="" type="checkbox"/>	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00025 with the 37 day test results.
REQUESTS FROM CONTRACTOR (with respect to testing): None

TESTING PERFORMED/SAMPLES COLLECTED		
Concrete	Strenght	Cylinders tested @ 28 days: Cast Date: 8/20/01
		Sample 7-A: Max Load:132,290 lbs, Strenght:4680 psi
		Sample 7-B: Max Load:130,930 lbs, Strenght:4630 psi
		Sample 7-C: Max Load:124,440 lbs, Strenght:4400 psi
		Average Compressive Strenght = 4,570 > 4000 Req'd
		Sample 8-A: Max Load:182,700 lbs, Strenght:6460 psi
		Sample 8-B: Max Load:192,300 lbs, Strenght:6800 psi
		Sample 8-C: Max Load:175,890 lbs, Strenght:6220 psi
		Average Compressive Strenght = 6,490 > 4000 Req'd
		Sample 9-A: Max Load:125,620 lbs, Strenght:4440 psi
		Sample 9-B: Max Load:139,020 lbs, Strenght:4920 psi
		Sample 9-C: Max Load:128,960 lbs, Strenght:4560 psi
		Average Compressive Strenght = 4,640 > 4000 Req'd

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: Missing information didn't allow samples to be broken at standard 7 and 28 days. Sample 9 not labeled by contractor as to location of sample taken. All samples exceed minimum stenght.

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS:	
ACTION (IF NECESSARY): None	

CONCRETE COMPRESSIVE STRENGTH TEST**Terracon**9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Report Number: 56011049 0025

Service Date: August 29, 2001

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
*9350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 05, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time:

Supplier: Ozinga

Truck No:

Mix I.D. No.:

Ticket No:

Sample Information

Sample Time:

Date Cast: August 29, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method:

Sample Locations:

Placement Location: Weed Room

Field Test Data

Test:	Result	Specification
Slump, inches:		
Air Content, %:		
Concrete Temperature, °F:		
Ambient Temperature, °F:		
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
7	A	6.00	28.27	10/05/2001	37	132,290	4,680
7	B	6.00	28.27	10/05/2001	37	130,930	4,630
7	C	6.00	28.27	10/05/2001	37	124,440	4,400
Average							4,570

Comments:

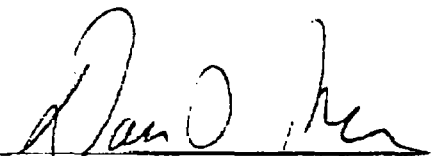
Locations written on cylinder molds by contractor.

Technician: CONTRACTOR

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:



Darren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST**Terracon**

Report Number 56011049.0026

Service Date: August 30, 2001

2427 Enterprise Drive
Mokena, IL 60448
(708) 478-8866

Client: Joseph A. Schuch & Associates

Attn: Matt Anderson

19350 South Harlem Avenue

Frankfort IL 60423

Report Date: October 05, 2001

Project: Riverdale Chemical Pavements

220 E. 17th Street

Chicago Heights

Project Number: 56011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time:

Supplier: Ozinga

Truck No:

Mix I.D. No:

Ticket No:

Sample Information

Sample Time:

Date Cast: August 30, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method:

Sample Locations:

Placement Location: West side dumpster pad

Field Test Data

Test	Result	Specification
Slump, inches:		
Air Content, %:		
Concrete Temperature, °F:		
Ambient Temperature, °F:		
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
8	A	6.00	28.27	10/05/2001	36	182,700	6,460
8	B	6.00	28.27	10/05/2001	36	192,300	6,800
8	C	6.00	28.27	10/05/2001	36	175,890	6,220
Average							6,490

Comments:

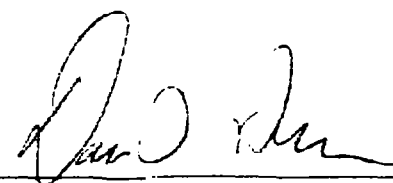
Locations were written on the cylinder molds by contractor.

Technician: CONTRACTOR

Report Distribution:

(2) Joseph A. Schuch & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST**Terracon**

Report Number: 56011049 0027

Service Date: August 31, 2001

5427 Enterprise Drive
Mokena, IL 60449
(708) 475-8807

Client: Joseph A. Schuch & Associates

Attn: Matt Anderson

19350 South Harlem Avenue

Frankfort IL 60423

Report Date: October 05, 2001

Project: Riverdale Chemical Pavements

220 E. 17th Street

Chicago Heights

Project Number: 56011049

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time:

Supplier: Ozings

Truck No:

Ticket No.

Mix I.D. No.:

Sample Information

Sample Time:

Date Cast August 31, 2001

Technician: CONTRACTOR

Weather Conditions:

Placement Method:

Sample Locations:

Field Test Data

Test	Result	Specification
Slump, inches:		
Air Content, %:		
Concrete Temperature, °F:		
Ambient Temperature, °F:		
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
9	A	6.00	28.27	10/05/2001	35	125,620	4,440
9	B	6.00	28.27	10/05/2001	35	139,020	4,920
9	C	6.00	28.27	10/05/2001	35	128,960	4,560
Average							4,640

Comments:

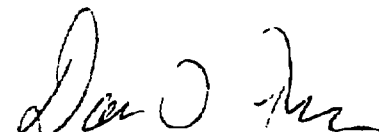
No information written on cylinder molds by contractor.

Technician: CONTRACTOR

Report Distribution:

(2) Joseph A. Schuch & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 10/8 – 10/12/01	Report No. 10	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 60° F to 70° F Rain		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 10/11/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete.

2. On-Going Work (10/8 – 10/12)

- Stormwater retention pond will continue, attempt to complete.
- Trench work and concrete to be installed in front of raw materials warehouse (Area 4).
- Curb installation at Area 4 and Area 5.
- Rainstore expected to arrive beginning this week – 8 shipments total.
- Stormsewer installation at west side of site (Area 3) including under 17th Street.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

3. Projected Work

- Curb installation at Area 4 and Area 5.
- Scarification and sub-grade base preparation in Area 4 and Area 5.
- Concrete at sewer value at front of office (Area 4)
- Sewer connections to Rainstore beginning (Area 3).
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/8-10/12	REPORT No. 10	PAGE No. 2/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Complete**
- Install concrete at trench – **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install asphalt - **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete - **Complete**
- Raise existing manholes - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install manhole - **Complete**
- Install asphalt - **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **Complete**
- Excavate for manhole #'s 12, 13, 14, 15
- Bore under railroad, excavate 17th Street and modify existing manhole
- Install 24" reinforced concrete pipe
- Install manhole #'s 13 and 12A, 12, 14, 15
- Install sewer
- Backfill northwest corner
- Install manhole #'s 10, 11 – **In Progress**
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 - **Complete**
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT: Riverdale Phase II Removal Action/Site Improvements**Area 4 – North of Manufacturing/Raw Materials Warehouse**

- Scarify/excavate existing sub-grade layer
- Install crushed aggregate base coarse
- Install drain– **In Progress**
- Install concrete– **In Progress**
- Install curbs– **In Progress**
- Install asphalt

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs– **In Progress**
- Install asphalt– **In Progress**

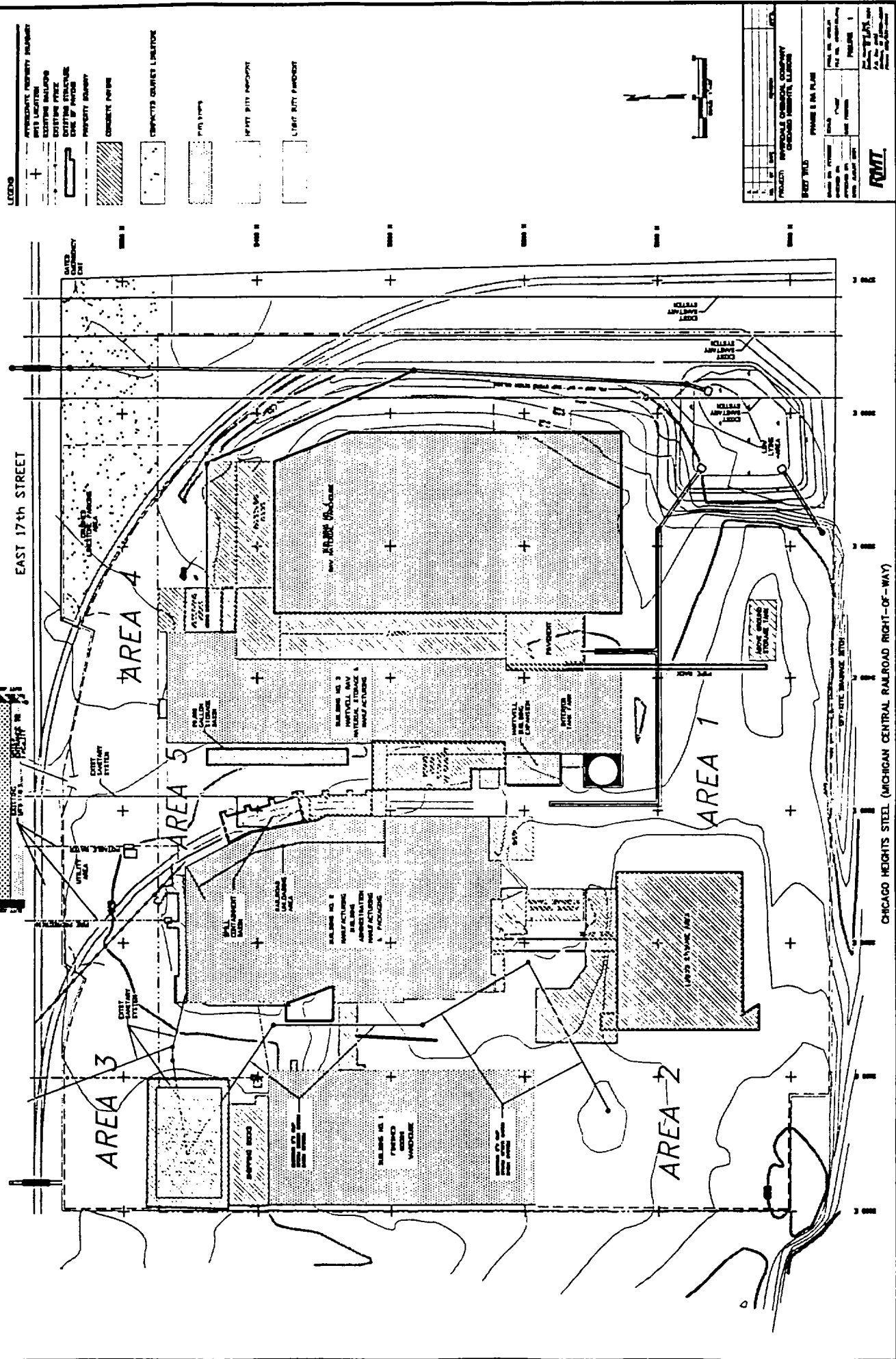
Stormwater Retention Basin

- Install manholes manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence - **Complete**
- Grade retention basin - **Complete**
- Seed retention basin
- Install guard rail
- Install catch basin #8 & 12 inch pipe to sewer

Other:

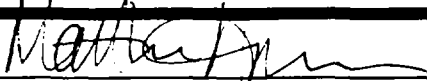

- Construction of the liquid storage area expansion and maintenance building is continuing.

11/91



PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/8-10/12	REPORT No. 10	PAGE No. 5 / 5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED: Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.		
TESTING PERFORMED/SAMPLES COLLECTED: Terracon will be on site Monday/Wednesday/Friday as required.		
10/9	Field Density Tests on subgrade Proofroll on basecourse	Acceptable results for tests Recommended to remove existing fill in (2) 100 ft ² areas and replace with CA6.
10/10	Field Density Tests on subgrade	Acceptable results for tests
FIELD PROBLEMS: There are no field problems to report.		

Received by: 	Date: 10/8/01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 10/8/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WCR10

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-8-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear ✓	Overcast		Rain	Snow	
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70	70-85	85 Up	
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	COMPANY	IN	OUT
TOM LAZOWSKI	MOSBECK	6:30	
KEN FISCHER	MOSBECK	6:35	
KEVIN SONQUIST	MOSBECK	6:35	
Scott Torggley	Mosbeck	7:00	
Carol Williams	"	7:00	
TERRY DeYoung	"	"	11:15
HANK KOETTER	DISCOUNT FENCE	10:00 AM	11:15
Bruce Leipart	" "	" "	
KEN ADAMS	MOSBECK	6:40	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR10

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-9-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	Mosbeck	6:00	
Ken Fischer	"	"	
Tom LAZOWSKI	"	6:35	
Ken FISCHER	MOSBECK	6:35	
Vince Rizzo	"	"	
Kevin Sonquist	Mosbeck	6:45	
KEN ADAMS	"	6:50	
T. MENDEZ	Mosbeck	7:00	
TERRY DYKUM	"	"	
Scott Luddy	Mosbeck	"	

DAILY CONSTRUCTION REPORT

REPORT NO. WC210

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-10-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
--	----------------------------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	Tom Lazowski	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Charles Medina	masbeck	6:00	
Ken Kocher	IL	11	12:00
Terry DeYoung	IL	6:30	
KEH ADAMS	u	6:40	
Scott Turley	masbeck	7:00	12:00
VINCE RIEZI	IL	7:00	12:00

DAILY CONSTRUCTION REPORT

REPORT NO. WCR10

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-11-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
--	----------------------------------

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast X		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70 X		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low X		Med.		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod X		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company

Name / Company	IN	OUT
Ken Trachsel	6:00	
Tom HAZOWSKI	6:40	
Vince Rizzi	6:40	
KEN ADAMS	6:46	
T. MENDEZ	7:00	
Terry DeYoung	7:00	
Scott Tundiff	7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WC210

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-12-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
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OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	Out
Carlo Gulina MOSBECK	6:00	
Tom LAZOWSKI	11	6:37
Ken Koch	11	11
John R.	11	4
KEN ADAMS	11	6:40
T. MENDEZ	11	11
T. DeYoung	11	11

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR10

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-9-01	REPORT No. 16	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.00028 & 00029
REQUESTS FROM CONTRACTOR (with respect to testing): None

TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Existing subgrade in Area 4: 4 Results prior to fill ranging 98.0 to 99.1%+ compaction. Minimum acceptable result is 98%.
		New subgrade stone in Area 4: 3 Results of fill ranging 98.0 to 100%+ compaction. Minimum acceptable result is 98%.
Proofroll		A fully loaded tandem axel semi-dump truck is rolled to determine if any soft, yielding areas might exist. 2 areas (10ft x 10ft) showed signs of moderate to high deflection & pumping.

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: 2 areas, both approx 10 ft by 10 ft should moderate to high deflection and pumping. Terracon recommend Mosbeck remove 6-8 inches of the pre-existing fill and replace it with new fill (CA6). Mosebeck complied and Terracon observed the removal and replacement.

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: Darin Frieling (Terracon) & Scott (Mosbeck)	Time:
SUBJECT/COMMENTS:	
ACTION (IF NECESSARY): Remove and replace yielding areas	

FIELD DENSITY TESTING

Terracon

WCR10

Report Number: 56011049.0028

Issue Date: October 9, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 18, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98
2. 110490008	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	9.4	133.2		98

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
1	Southeast corner of area 4	SG	2	8"	3.6	130.6	98.0
2	20' west of southeast corner of area 4	SG	2	8"	4.0	134.9	100.0+
3	Northeast corner of area 4	SG	2	8"	4.7	131.2	98.5
4	Southeast corner of area 4	SB	1	8"	4.5	135.9	98.5
5	20' west of southeast corner of area 4	SB	1	8"	3.7	135.3	98.0
6	Northwest corner of area 4	SB	1	8"	4.1	136.7	99.1
7	30' west of northeast corner of area 4	SB	1	8"	4.6	135.4	98.1

Terracon representative observed engineered fill being placed and compacted in area 4. The fill being placed was an imported CA-6 in 5" lifts and compacted with a vibratory roller. Testing with a nuclear density gauge yielded passing results indicating that the fill meets the project specifications of 98% using a standard Proctor value of 133.2 and 138.0.

S.G. = Finished subgrade elevation

S.B. = Finished basecourse elevation

Services - Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID:

Field Results Reported To: Scott

Technician: Darin Frieling

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:

Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

REPORT OF PROOFROLL OBSERVATION

Terracon

wx210

Report Number: 56011049.0029

Service Date: October 9, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 18, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Services:

Terracon representative observed a proof-roll on the pre-existing fill present in area 4. Terracon observed moderate to high deflection and pumping in two approximately 10'x10' sections. The first section is located in the northeast corner of area 4 and the second section is located 20' west x10' north of section one. (See map for detail). Terracon recommended Mosbeck remove about 6" - 8" of this pre-existing fill and replace it with new fill (CA-6). Mosbeck complied and Terracon observed the removal and replacement.

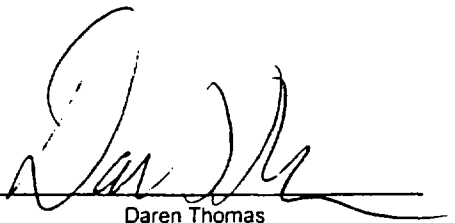
Field Results Reported To: Scott

Technician: Darin Frieling

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:


Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCL10

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-10-01	REPORT No. 17	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W <input checked="" type="checkbox"/>	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.00030 & 31.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Existing subgrade in Area 4 & 5: 2 Results prior to fill ranging 98.0 to 100%+ compaction. Minimum acceptable result is 98%.
		New subgrade stone in Area 4 & 5: 3 Results of fill at 100%+ compaction. Minimum acceptable result is 98%.
Proofroll		No proofroll – Work cancelled

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: With no work being performed, a proofroll was not observed onsite.

DAILY COMMUNICATIONS:

NAME/REPRESENTING: Darin Frieling
(Terracon) & Scott (Mosbeck)

Time:

SUBJECT/COMMENTS:

ACTION (IF NECESSARY): None

FIELD DENSITY TESTING

Terracon W210

Report Number: 56011049.0030
Issue Date: October 10, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 18, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98
2. 110490008	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	9.4	133.2		98

Field Test Data

Test No.	Test Location	Lift/ Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
1	Southwest corner of area 4	S.B.	1	8"	5.6	138.7	100.0+
2	Northeast corner of area 5	S.B.	1	8"	6.3	140.1	100.0+
3	Southeast corner of area 5	S.B.	1	8"	7.1	139.2	100.0+
4	Southwest corner of area 5	S.G.	2	8"	5.3	133.7	100.0+
5	Northwest corner of area 5	S.G.	2	8"	5.8	130.6	98.0

Terracon representative observed engineered fill being placed and compacted in area 4 and 5. The import CA-6 was being placed in 2" -5" lifts and compacted using a vibratory roller. Testing as performed with a nuclear density gauge which indicated that the fill meets the project compaction specifications of 98% using a standard Proctor value of 138.0 and 133.2 pcf.

S.B. = Finished basecourse elevation

S.G. = Finished subgrade elevation

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID:

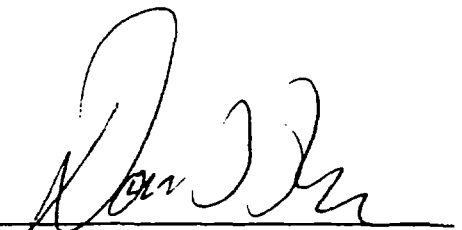
Field Results Reported To: Scott

Technician: Darin Frieling

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:


Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

REPORT OF PROOFROLL OBSERVATION

Terracon

9427 Enterprise Drive
Mokena, IL 60443
(708) 478-8868

WCR10

Report Number: 56011049.0031
Service Date: October 11, 2001

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

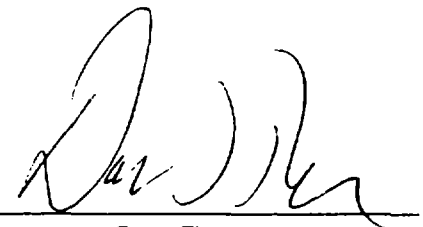
Report Date: October 18, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights
Project Number: 56011049

Services:

Terracon representative arrived on-site to find that there would be no proofroll performed today due to work being cancelled.

Field Results Reported To: Scott
Technician: Darin Frieling
Report Distribution:
(2) Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 10/15 – 10/19	Report No. 11	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 40° F to 50° F Rain Delays		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 10/18/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete.
- Trench work and concrete complete at Area 4 and Area 5.

2. On-Going Work (10/15 – 10/19)

- Stormwater retention pond will continue, attempt to complete.
- Continuing with sewer connections to Rainstore area.
Continuing to receive shipments of Rainstore.
- Dewater CA6 in portion of Area 4 prior to asphalt installation.
- Asphalt base course being installed at Area 4 and Area 5.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

3. Projected Work

- Asphalt installation at Area 4 and Area 5.
- Installation of Rainstore system.
- CQA testing including visual observation of sub-grade base and compaction testing.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/15-10/19	REPORT No. 11	PAGE No. 215
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Complete**
- Install concrete at trench – **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install asphalt - **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete - **Complete**
- Raise existing manholes - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install manhole - **Complete**
- Install asphalt - **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **Complete**
- Excavate for manhole #'s 12, 13, 14, 15 - **Complete**
- Bore under railroad, excavate 17th Street and modify existing manhole - **Complete**
- Install 24" reinforced concrete pipe - **Complete**
- Install manhole #'s 13 and 12A, 12, 14, 15 - **In Progress**
- Install sewer - **In Progress**
- Backfill northwest corner
- Install manhole #'s 10, 11 – **In Progress**
- Install Rainstore3 underground stormwater storage
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole **In Progress**
- Install asphalt
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 - **Complete**
- Tie-in down spouts from building - **In Progress**
- Backfill
- Reinstall fence (west)

PROJECT: Riverdale Phase II Removal Action/Site Improvements**Area 4 – North of Manufacturing/Raw Materials Warehouse**

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install drain - **Complete**
- Install concrete- **Complete**
- Install curbs - **Complete**
- Install asphalt – **In Progress**

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs- **Complete**
- Install asphalt– **In Progress**

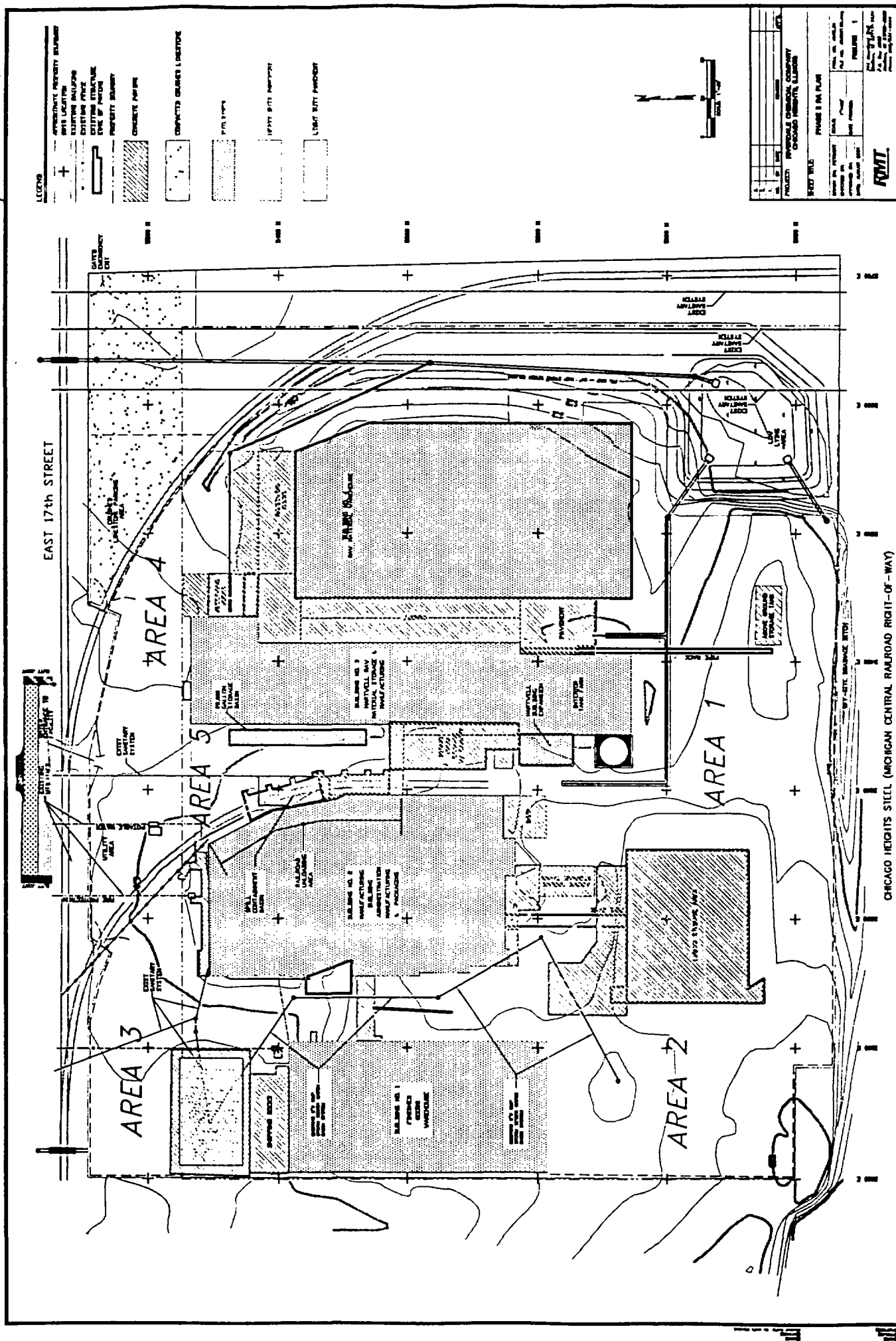
Stormwater Retention Basin

- Install manholes manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall - **Complete**
- Install manhole #'s 6, 7 - **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence - **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence - **Complete**
- Grade retention basin - **Complete**
- Seed retention basin - **Complete**
- Install guard rail – **In Progress**
- Install catch basin #8 & 12 inch pipe to sewer - **Complete**

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

4/6 10/1



PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/15-10/19	REPORT No. 11	PAGE No. 5/5
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PROJECT: Riverdale Phase II Removal Action/Site Improvements

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

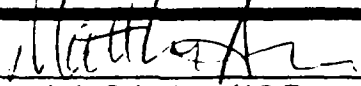
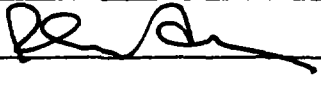
TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

10/13	Proofroll on Base Course	Acceptable results for tests
10/15	Concrete for Strength Proofroll on Base Course	Acceptable results for tests Section of subgrade showed signs of deflection
10/18	Proofroll on Base Course Compaction Tests on Subgrade	Deflection still present in one section Acceptable results for tests
10/19	Field Density Testing on Binder	Compaction results do not meet standard at this time. It is expected that compaction tests will meet the standard after final course of asphalt is laid.

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date:
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 11/15/04
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☒

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☒

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WCE11

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-15-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919

SITE MANAGER

Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Charles Gulina	mosbeck	6:00	
Ken Fischer	"	"	
Uma Kij	"	"	
Tom Dąbrowski	"	6:45	
KEN ADAMS	"	6:48	
T. Miodus	"	"	
Terry Bokun	"	"	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR11

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-16-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Charles Gulinski	mosbeck	6:15	
Ron Fischer	"	"	
Tom LAZOWSKI	"	6:40	
KEN ADAMS	"	6:40	
Vince Jara	"	"	
Meredith	Mosbeck	7:00	
T. DeYoung	"	"	
Scott Taddy	"	7:00	
HANK KOEHLER	DISCOUNT FENCE	9:10	
BRUCE LEHART	" "	" "	
JOE KRONENBERG	" "	" "	

DAILY CONSTRUCTION REPORT

REPORT NO. W1211

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-17-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
--	----------------------------------

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S		
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <u>Tom Lazowski</u>	WIND	Low	Med.	High						
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	Out
Carlo Gulina mosbeck	6:00	
KEN ADAMS MOSBECK	6:40	
Tom LAZOWSKI "	6:40	
T. HENDEZ	7:00	
T. DeYoung "	"	

DAILY CONSTRUCTION REPORT

REPORT NO. Well

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-18-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
--	----------------------------------

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low		Med.		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	Out
Garry Gulina mosquito	6:00	
KRN ADHAMS	6:40	
Tom LAZOWSKI	6:45	
TERRY DeYoung	7:00	
Kim Trechin	--	

DAILY CONSTRUCTION REPORT

REPORT NO. WCB11

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-19-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919

SITE MANAGER

Tom Lazowski

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low		Med.		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		In	Out
Carlo Gulina	MOSBROCK	6:00	
Ken Fischer	-	-	
TOM LAZOWSKI	AT	6:00	
JERRY OBATTEK	ATO	6:55	3:00
PAUL PEDAR	ATO	6:55	3:00
KEN ADAMS	MOSBROCK	6:55	
T. MEJER	"	"	"
Terry DeYoung	"	"	"

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

Wc211

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-15-01	REPORT No. 18	PAGE No.					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.00004 with the 56-day test results.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Concrete	Strength	Cylinders tested @ 54 days: Cast Date: 8/20/01
		Sample 1C-D: Max Load:118,630 lbs, Strenght:4200 psi

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: Concrete Design specified is 4000 psi @ 28 days. Sample 1C didn't meet the design requirements. The final cylinder was broken at 56 days to determine if adequate strength has been met. The cylinder break showed strength of 4200 psi. No further action necessary.

DAILY COMMUNICATIONS:

NAME/REPRESENTING: Mosbeck

Time:

SUBJECT/COMMENTS: Sent copy of CQA & Testing results

ACTION (IF NECESSARY): None

CONCRETE COMPRESSIVE STRENGTH TEST

WCE 11
Terracon

Report Number: 56011049.0004

Issue Date: August 20, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 17, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Specified Strength:

Batch Time: 12:12 pm Plant: Chicago Heights, IL

Supplier: Ozinga

Truck No: 363

Ticket No: 32255

Mix I.D. No.: 1777

Sample Information

Sample Time: 12:35 pm Date Cast: August 20, 2001

Technician: Macario Bernal

Weather Conditions: Partly Cloudy

Accumulative Yards: 50

Placement Method: Direct Discharge

Sample Locations: 5' north of west metal guard rail

Placement Location: Exterior pavement north of tank storage area

Field Test Data

Test	Result	Specification
Slump, inches:	5.0	
Air Content, %:	7.4	
Concrete Temperature, ° F:	80	
Ambient Temperature, ° F:	75	
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)
1C	A	6.00	28.27	08/27/2001	7	94,990	3,360
1C	B	6.00	28.27	09/17/2001	28	99,650	3,520
1C	C	6.00	28.27	09/17/2001	28	105,060	3,720
					Average		3,620
1C	D	6.00	28.27	10/15/2001	56	118,630	4,200

Comments:

No mix design submitted

Services - The Terracon representative was on site to observe and test the placement of concrete for the above mentioned locations. Slump, air, and temperature tests along with compressive strength samples were taken for the placement.

Field Results Reported To: Tom Lazowski

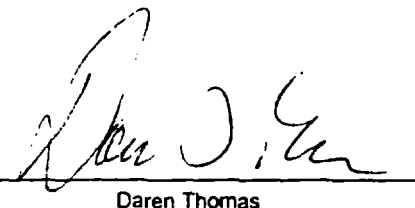
Samples made by Terracon.

Technician: Macario Bernal

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:


Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCL-11

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-13-01	REPORT No. 18	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S <input checked="" type="checkbox"/>
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION: RAIN							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0033.		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Subgrade	Proofroll	A section of the subgrade had visible standing water & showed signs of deflection when walking.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: <i>Terracon observed an accumulation of water & soft-yielding subgrade material in Area 4. Work was canceled due to rain</i>		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: JAS	Time:
SUBJECT/COMMENTS: Notified of standing water & weak subgrade.	
ACTION (IF NECESSARY): Proposed to meet onsite Monday morning to discuss possible actions.	

REPORT OF SITE VISIT

Terracon

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

WCB

Report Number: 56011049.0033

Service Date: October 13, 2001

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 24, 2001

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Services:

Terracon representative observed the existing conditions of the subbase in areas 4 and 5. It was raining while Terracon was on-site and there was a build-up of standing water in the southwest corner of area 4. Deflection in the subbase was evident in this area as well.

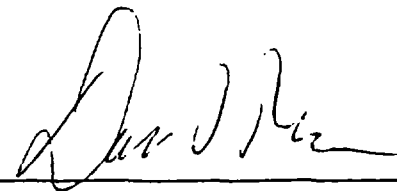
Field Results Reported To: Matt Anderson

Technician: Darin Frieling

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

well

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-15-01 REVISED	REPORT No. 19	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M <input checked="" type="checkbox"/>	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.00004 with the 56-day test results & 56011049.0032.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Concrete	Strength	Cylinders tested @ 54 days: Cast Date: 8/20/01
		Sample 1C-D: Max Load: 118,630 lbs, Strength: 4200 psi
Subgrade	Proofroll	A section of the subgrade had standing water & showed signs of deflection when walking. See below

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: Concrete Design specified is 4000 psi @ 28 days. Sample 1C didn't meet the design requirements. The final cylinder was broken at 56 days to determine if adequate strength has been met. The cylinder break showed strength of 4200 psi. No further action necessary.

Terracon & Matt Anderson met to discuss an area of soft-subbase material in Area 4. Standing water on the subbase saturated the base causing visible deflection when walking. Thickening the slab & scarifying subbase suggested course of action

DAILY COMMUNICATIONS:

NAME/REPRESENTING: Mosbeck

Time:

SUBJECT/COMMENTS: Sent copy of CQA & Testing results.

ACTION (IF NECESSARY): Scarify wet areas. Pump water & thicken binder course in area.

Terracon

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

well

RECEIVED

... - 5 2001

1. The first

Terracon representative arrived on-site to observe the conditions of the exposed existing subgrade in areas 4 and 5. Terracon observed some standing water and soft subbase material in both areas 4 and 5 especially in the southwest corner of area 4. Met and discussed possible solutions with Matt Anderson. Terracon agreed that thickening the binder asphalt material could be a positive solution to the problem. The area could then be reassessed in the spring.

Reviewed by:

Daren Thomas

RESEARCHERS HAVE NOT

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR11

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-17-01	REPORT No. 20	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T	W <input checked="" type="checkbox"/>	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.0034.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:

Work was cancelled upon Terracon's arrival.

DAILY COMMUNICATIONS:

NAME/REPRESENTING: JAS

Time:

SUBJECT/COMMENTS: Notified of cancellation.

ACTION (IF NECESSARY):

REPORT OF WORK CANCELLED

Terracon

Report Number: 56011049.0034
Service Date: October 17, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

well

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

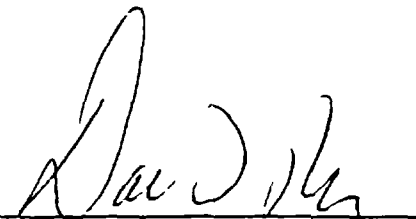
Report Date: October 24, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights
Project Number: 56011049

Services:

Work was cancelled upon arrival.

Field Results Reported To: Matt Anderson
Technician: Darin Frieling
Report Distribution:
Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

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CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCR 11

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-18-01	REPORT No. 21	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH <input checked="" type="checkbox"/>	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.0035 & 0036.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Subgrade	Proofroll	Deflection still evident in 16' E by 11' N area near concrete loading docks.
Subgrade	Compaction	Compaction exceeded 100% compaction.

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:

Deflection still present after scarifying & pumping. Water present within subgrade.

DAILY COMMUNICATIONS:

NAME/REPRESENTING: JAS & Riverdale

Time:

SUBJECT/COMMENTS: Notified of failing subgrade proofroll. Highly suggested that mixing lime into subgrade would help firm area up. It was understood this area still might warrant attention in the spring.

ACTION (IF NECESSARY): Mix lime into subgrade, recompact prior to placement of binder.

REPORT OF SOILS OBSERVATION

Terracon

Report Number: 56011049.0035
Issue Date: October 18, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

WCR11

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

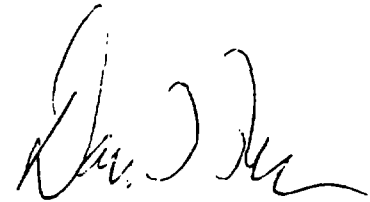
Report Date: October 24, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights
Project Number: 56011049

Services:

Terracon representative observed a proofroll of the southwest corner of area 4. Deflection was evident in a section 16' east by 11' north of the southwest corner. Terracon representative informed Schudt and Associates that this section failed the proofroll and that if the section is left unchanged it could affect the performance of the asphalt. After discussions with Matt Anderson of Joseph A. Schudt and Associates, it was decided to mix lime with the crushed stone base in an attempt to dry out and firm up the subgrade prior to placing binder. It was agreed and understood that, depending on how successful mixing lime with the base soils is in stabilizing this area, some repair of the binder course and subgrade may be necessary in the spring.

Field Results Reported To: Matt Anderson
Technician: Darin Frieling
Report Distribution:
Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

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FIELD DENSITY TESTING

Report Number: 56011049.0036
Service Date: October 18, 2001

Terracon

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

WCL

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 24, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98
2. 110490008	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	9.4	133.2		98

Field Test Data

Test Location		Lift/ Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
1	5' north x 2' east of southwest corner of area 4	SG	1	8"	8.2	138.0	100.0
2	9' north x 8' east of southwest corner of area 4	SG	1	8"	7.6	141.6	100.0+
3	2' north x 12' east of southwest corner of area 4	SG	1	8"	8.5	141.9	100.0+

Terracon representative observed engineered fill in the southwest corner of area 4. The imported CA-6 fill was placed in 5" thick loose lifts and compacted using a vibratory roller. Tests performed with a nuclear density gauge indicate that the fill meets the project compaction specifications of 98% using a standard Proctor value of 138.0 pcf.

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID: #5

Field Results Reported To: Matt Anderson

Technician: Darin Frieling

Started: 2:00 pm

Finished: 4:30 pm

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:


Daren Thomas

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CQA CONSTRUCTION REPORT

(To be completed per day of testing)

WCBH

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-19-01	REPORT No. 22	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.0037.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Field Density Tests *ASTM D2950, ASTM D2726	% Compaction	3" Asphalt Binder in Areas 4 & 5 16 Test Results of Asphalt Binder ranging 85.0 to 97%+ compaction. Minimum acceptable result is 92%.

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:

Three areas outlined in Terracon's report show very low density readings. Terracon asked contractor to re-roll areas & final readings reflect re-rolled results.

DAILY COMMUNICATIONS:

NAME/REPRESENTING: JAS, Riverdale,
Mosbeck & Callaghan

Time:

SUBJECT/COMMENTS: Notified of low test results either verbally or via fax.

ACTION (IF NECESSARY): Terracon to test specimen for Actual Big 'D'. Care should taken when placing final surface to ensure final surface meets specified compaction.

HMA FIELD DENSITY TESTING**Terracon**

Report Number: 56011049.0037

Service Date: October 19, 2001

5427 Enterprise Drive
Mokena, IL 60449
(708) 475-8868

W211

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort, IL 60423

Report Date: October 24, 2001

**REVISED

Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description	Lab Test Data	Project Requirements		
			Reference Density (pcf)	Minimum Thickness (inches)	Minimum Compaction (%)	Maximum Compaction (%)
1.		Binder mix B	159.1	2.55	92	96

Field Test Data

Test No.	Location	Pavement Lift	Mat. No.	Nuclear Density (pcf)	Comp. (%)
1	20' east x 20' south of the northwest corner of area 5	1	1	151.7	95
2	25' east x 40' south of northwest corner of area 5	1	1	135.7	85
3	25' east x 45' south of northwest corner of area 5	1	1	137.2	86
4	35' east x 45' south of northwest corner of area 5	1	1	152.7	96
5	15' east x 45' south of northwest corner of area 5	1	1	149.0	94
6	15' west x 15' south of northeast corner of area 5	1	1	149.7	94
7	5' west x 5' south of northeast corner of area 5	1	1	141.6	89
8	5' west x 15' south of northeast corner of area 5	1	1	140.5	88
9	10' east x 10' north of the southwest corner of area 4	1	1	148.2	93
10	15' east x 5' north of the southwest corner of area 4	1	1	153.6	97

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

FIELD DENSITY TESTING

Client (Owner): A. Schudt & Associates

Terracon WCR 11

Project Number: 56011049

Report Number: 56011049-0027

Field Test Data

Test No.	Location	Pavement Lift	Mat No.	Nuclear Density (pcf)	Comp. (%)
11	5' west x 5' north of southeast corner of area 4	1	1	151.7	95
12	5' west x 5' south of northeast corner of area 4	1	1	149.2	94
13	5' east x 5' south of northwest of area 4	1	1	153.1	96
14	15' east x 10' south of northwest of area 4	1	1	155.6	96
15	40' east x 50' south of northwest corner of area 4	1	1	135.2	88
16	10' east x 50' south of northwest corner of area 4	1	1	138.0	87

* Long time lapse between static and vibratory rolling.

Terracon representative visited the site to observe and test the placement of 3" of binder in areas 4 and 5. Sixteen tests were taken using a nuclear density gauge. A big "D" 2.55 was supplied by the contractor, and a Marshall value of 159.1 was used. Temperature tests were taken periodically with an average reading of 220 degrees. A rolling pattern with an average of 5 to 6 passes was established with the vibratory roller. The tests concluded that the asphalt was compacted to the necessary specification of between 92%-96% using the Marshall value of 159.1 pcf, with the exception of three sections: One in the western side of area 4, one in the northeast corner of area 5 and one on the west side of area 5. After initially obtaining low compaction results, these areas were recompact with the vibratory roller, and retested. The retests again indicated low compaction. The results were discussed with both Matt Anderson of Joseph A. Schudt and representatives of Callaghan Paving. See the attached sketch for areas with low compaction. A sample of the binder material was collected and will be tested in the laboratory to determine the actual Big "D".

Field Test Method: ASTM D2930, ASTM D2720

Gauge ID: #5

Field Results Reported To: Matt Anderson/Callaghan Paving

Technician: Darin Frieling

Started: 8:30 am

Finished: 2:30 pm

Report Distribution:

(C) Joseph A. Schudt & Associates

Reviewed by:

Darin Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 10/22 – 10/26	Report No. 12	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 40° F to 50° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 10/25/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete.
- Trench work and concrete complete at Area 4 and Area 5.

2. On-Going Work (10/22 – 10/26)

- Stormwater retention pond will continue, attempt to complete.
- Excavation of rain store system.
- Excavation for curbing in Area 3.
- Installation of rain store system beginning at the end of the week.
- Excavated soil generated during the rain store preparation will be managed promptly.

3. Projected Work

- Curb installation and concrete around transformer in Area 3.
- Installation of concrete over rain store system.
- Complete the installation of guardrail around stormwater retention pond.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/24-9/28/12 10/12	REPORT No. 10 12	PAGE No. 215
PROJECT: Riverdale Phase II Removal Action/Site Improvements 10/26				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install trench – **Complete**
- Install concrete at trench – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install concrete – **Complete**
- Raise existing manholes – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Install manhole – **Complete**
- Install asphalt – **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) – **Complete**
- Excavate for manhole #'s 12, 13, 14, 15 - **Complete**
- Bore under railroad, excavate 17th Street and modify existing manhole - **Complete**
- Install 24" reinforced concrete pipe – **Complete**
- Install manhole #'s 13 and 12A, 12, 14, 15 – **Complete**
- Install sewer – **Complete**
- Backfill northwest corner – **Complete**
- Install manhole #'s 10, 11 – **Complete**
- Install Rainstore3 underground stormwater storage – **In Progress**
- Backfill and install concrete over Rainstore3
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 - **Complete**
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

WLC 12

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 9/24-9/28 ^{10/12}	REPORT No. 10/12	PAGE No. 3/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements ^{10/26}				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install drain– **Complete**
- Install concrete– **Complete**
- Install curbs– **Complete**
- Install asphalt – **Complete**

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs– **Complete**
- Install asphalt– **Complete**

Stormwater Retention Basin

- Install manholes manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall – **Complete**
- Install manhole #'s 6, 7 – **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence – **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence – **Complete**
- Grade retention basin – **Complete**
- Seed retention basin – **Complete**
- Install guard rail – **Complete**
- Install catch basin #8 & 12 inch pipe to sewer – **Complete**

Other:

- Construction of the liquid storage area expansion is continuing.

WCL 12

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/12 9/24-9/28 1998	REPORT No. 10/12	PAGE No. 5/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

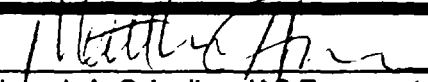

TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

10/26	Visual Observation - Compaction and Placement	Acceptable results for observation

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date:
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 11/15/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report



CQA Report to be attached to Weekly Construction Report (as required per days of testing)



CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WCL-2

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-22-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun	Clear	Overcast		Rain	Snow	
REPORT PREPARED BY	Tom Lazowski	TEMP.		To 32	32-50	50-70		70-85	85 Up	
SIGNATURE	<i>Tom Lazowski</i>	WIND		Low	Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY		Dry	Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

G:\DATA\PROJECTS\Riverdale\Phase II RA\Riverdaledaily.doc

SITE PERSONNEL

Name / Company		IN	Out
Carlo Bulina	Mosbeck	6:30	
Ken Fischer			
Tom LAZOWSKI	"	6:45	
KEN ADAMS	"	6:45	
Vince Rizzi	"	"	
Terry DeKorny	Mosbeck	"	
J. OBATTEK	MTO	700	230
P. REDAR	MTO	700	230
T. MENDEZ	Mosbeck	7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR-12

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-23-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun	Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.		To 32	32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND		Low	Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY		Dry	Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

IN

Out

Charles Mulina	Mosbeck	6:00	
KEN ADAMS	"	6:40	
J. O'BATTEK	NCO	7:00	2:30
T. MENDEZ	Mosbeck	7:00	
Terry DeLong	"	"	
Scott Terrell	Mosbeck	7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR12

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-24-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	Mosbeck	6:00	
Ken Fischer	"		
C. [unclear]	"	6:30	
KEN ADAMS	"	6:45	
T. MENDEZ	" "	7:00	
V. Mizzzi	" "	7:00	
J. OBATTEK	M+O	7:00	
D. CORA	M+O	7:00	
L. DIXON	Mosbeck	7:00	
Scott Treadwell	Mosbeck	7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WCL12

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-25-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
--	----------------------------------

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low		Med.		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

G:\DATA\PROJECTS\Riverdale\Phase II RA\Riverdaledaily.doc

SITE PERSONNEL

Name / Company		IN	Out
Carlo Gulina	mosbeck	6:00	
Ken Fischer	"	"	
TAM HAZOWSKI	"	6:40	
KEN ADAMS	"	6:44	
T. MENDEZ	"	"	
Terry DeYoung	"	"	
Scott Tisdale	"	7:00	
David Cornett	M+O	7:00	
J. OBATTEK	M+O	7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. WCR 42

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-26-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919

SITE MANAGER Tom Lazowski

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low		Med.		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	LN	Out
Carol Melina Masbeck	6:15	
Ken Fischer		
TOM LAZOWSKI	11	6:40
KEN ADAMS	6	6:48
Scott Twiddy	Masbeck	7:00
T. MENDEZ		
J. OBATTEK	MTO	700
N OBAJTEK	MTO	700

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

W12 12

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-26-01	REPORT No. 23	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.0039.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Visual Observation	Compaction & Placement	Visual observation of placement & compaction of 3 inches of ¾ washed stone.

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:

DAILY COMMUNICATIONS:

NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS: none	
ACTION (IF NECESSARY): none	

REPORT OF SOILS OBSERVATION

Terracon

Report Number: 56011049.0039
Service Date: October 26, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

WEE12

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 30, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

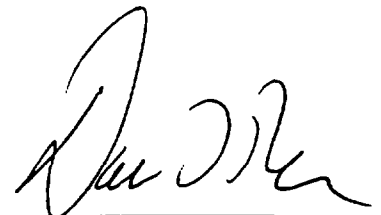
Project Number: 56011049

Services:

Terracon representative observed the placement and compaction of 3" of 3/4" wash stone in the base of the retention system in area 3. The stone was placed in one 3" lift and compacted using a vibratory roller. Terracon representative confirmed that the fill being used was in fact 3/4" stone. Terracon also observed the placement of 42" rain store structures being placed after compaction.

Field Results Reported To: Matt Anderson
Technician: Darin Frieling
Report Distribution:
(2) Joseph A. Schudt & Associates

Reviewed by:



Daren Thomas

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 10/29 – 11/2	Report No. 13	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 40° F to 50° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 11/1/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete.
- Trench work and concrete complete at Area 4 and Area 5.
- Excavation for curbing and rain store system in Area 3 complete.
- Installation of rain store cells complete.

2. On-Going Work (10/29 – 11/2)

- Stormwater retention pond will continue, attempt to complete.
- Installation of concrete over rain store system to begin this Friday.

3. Projected Work

- Curb installation at Area 3.
- Concrete work around transformer in Area 3.
- Installation of guardrail around stormwater retention pond.

4. Problems/Critical Areas

- There are no problems identified.
- *Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.*

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/29-11/2	REPORT No. 13	PAGE No. /
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.

RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install trench – **Complete**
- Install concrete at trench – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install concrete – **Complete**
- Raise existing manholes – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Install manhole – **Complete**
- Install asphalt – **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) – **Complete**
- Excavate for manhole #'s 12, 13, 14, 15 – **Complete**
- Bore under railroad, excavate 17th Street and modify existing manhole – **Complete**
- Install 24" reinforced concrete pipe – **Complete**
- Install manhole #'s 13 and 12A, 12, 14, 15 – **Complete**
- Install sewer – **Complete**
- Backfill northwest corner – **Complete**
- Install manhole #'s 10, 11 – **Complete**
- Install Rainstore3 underground stormwater storage – **Complete**
- Backfill and install concrete over Rainstore3 – **In Progress**
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west) – **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 – **Complete**
- Tie-in down spouts from building
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/29-11/2	REPORT No. 13	PAGE No. /
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install drain – **Complete**
- Install concrete – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Stormwater Retention Basin

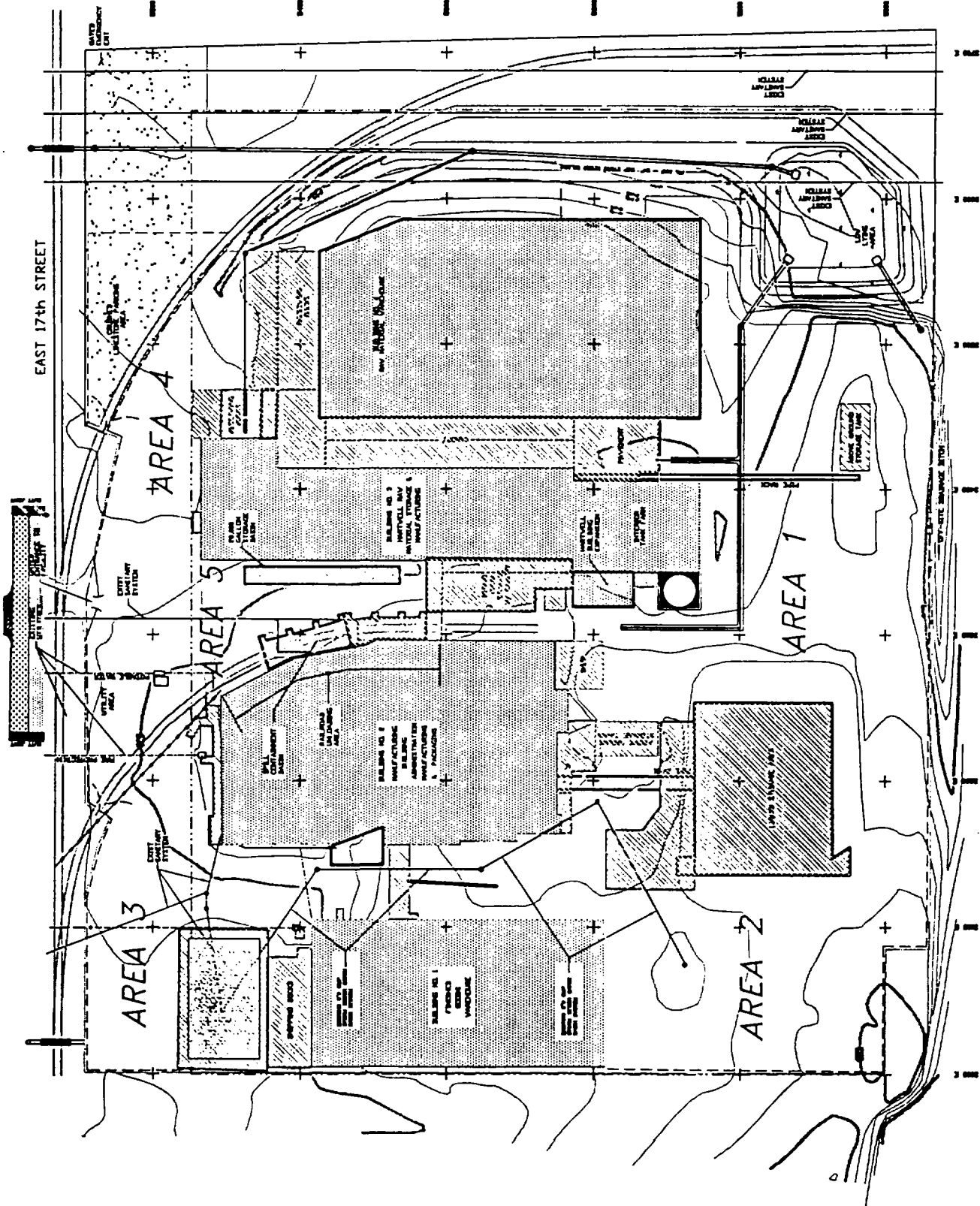
- Install manholes and piping – **Complete**
- Excavate retention basin – **Complete**
- Install retaining wall – **Complete**
- Install manhole #'s 6, 7 – **Complete**
- Install 12" reinforced concrete pipe to pond – **Complete**
- Remove fence – **Complete**
- Remove manhole # 5/install new manhole #5 – **Complete**
- Install 24" reinforced concrete pipe to manhole #5 – **Complete**
- Reinstall fence – **Complete**
- Grade retention basin – **Complete**
- Seed retention basin – **Complete**
- Install guard rail
- Install catch basin #8 & 12 inch pipe to sewer – **Complete**

Other:

- Construction of the liquid storage area expansion is continuing.

LEGEND

+	PREVIOUS PROPERTY BOUNDARY
—	EXISTING RAILROAD
—	EXISTING STRUCTURE
—	LINE OF ADJACENT
—	PROPERTY BOUNDARY
▨	CONCRETE PAVING
▤	CONCRETE DRIVEWAY
▥	CONCRETE DRIVEWAY
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PROJECT	INDUSTRIAL DEVELOPMENT COMPANY
CLIENT	CHICAGO INDUSTRIAL DEVELOPMENT
DATE	1980
BY	JOHN J. HARRIS
CHECKED BY	JOHN J. HARRIS
APPROVED BY	JOHN J. HARRIS
SCALE	1" = 100'
FIGURE	1
FIGURE 1	1
FIGURE 2	2
FIGURE 3	3
FIGURE 4	4
FIGURE 5	5
FIGURE 6	6
FIGURE 7	7
FIGURE 8	8
FIGURE 9	9
FIGURE 10	10
FIGURE 11	11
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FIGURE 93	93
FIGURE 94	94
FIGURE 95	95
FIGURE 96	96
FIGURE 97	97
FIGURE 98	98
FIGURE 99	99
FIGURE 100	100

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 10/29-11/2	REPORT No. 13	PAGE No. /
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.

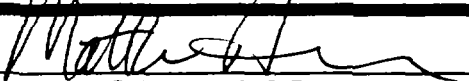

TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

10/30	Field Density Tests	Acceptable results for tests
10/31	Field Density Tests	Not all tests meet applicable compaction. Forecasted rain expected to improve compaction results.
11/2	Field Density Tests	Acceptable results for tests

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 12-4-01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 12/4/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☐

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☐

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. WR13

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-29-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule

☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT:

☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company

In

Out

Carol Melina	Mosbeck	6:00	
Kim Fischer			
Tom LAZOWSKI	1.1	6:45	
KEN ADAMS	"	6:50	
TERRY DeYoung	"	"	
T. Menden	"	"	
J. DRATTEK	MTO	7:00	
N. OBRATK	MTO	7:00	
Tim Buff	Crown Eng	9:35	11:45
PAUL OSTRANDER	"	9:35	11:45
Scott Tinsley	Mosbeck	7:00	

DAILY CONSTRUCTION REPORT

REPORT NO. W1213

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-30-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919

SITE MANAGER

Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.		To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND		Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY		Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		IN	Out
Charles Guilina	Mosbeck	6:00	
Ken Fischer	"	"	
Tom LAZOWSKI	"	6:35	
Ken Colans	"	6:38	
TERRY DeKoning	"	"	
T. MENDEZ	"	"	
J. OBAJTEK	MTO	7:00	
N OBAJTEK	MTO	7:00	
C. [unclear]	Mosbeck	"	
Scott Tully	"	"	

DAILY CONSTRUCTION REPORT

REPORT NO. W13

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>10-3-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IXI	Out
Charles Gulina masbeck	6:15	
Tom LAZOWSKI	11	6:30
Ken Fischer	11	11
KEN ADAMS	11	6:40
J. OBATTEK	MTC	7:00
N. OBATTEK	MTC	7:00
T. Muth	Michael	7:00
Terry DeYoung	11	11
Scott Tuddy	11	7:00

DAILY CONSTRUCTION REPORT

REPORT NO. WCA13

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>11-1</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: <u>Peter Bibby</u>		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR <u>Mosbeck (708) 333-6919</u>	SITE MANAGER <u>Tom Lazowski</u>
--	----------------------------------

OWNER <u>Nufarm</u>	DAY	S	M	T	W	TH	F	S	
LOCATION <u>Riverdale 220 East 17th Street Chicago Heights, IL</u>	WEATHER	Bright Sun		Clear		Overcast <u>✓</u>		Rain	Snow
REPORT PREPARED BY <u>Tom Lazowski</u>	TEMP.	To 32		32-50		50-70 <u>✓</u>		70-85	85 Up
SIGNATURE <u>Tom Lazowski</u>	WIND	Low		Med. <u>✓</u>		High			
SITE PERSONNEL <u>See Attached List</u>	HUMIDITY	Dry		Mod. <u>✓</u>		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		IN	Out
Charles Gulina	Masbeck	6:15	
Tom Lafowski	"	6:35	
KEN ADAMS	"	6:45	
Ken Fischer	"	"	
TERRY DeKoning	"	"	
J. OBATEK	MTO	7:00	
Fred OBATEK	MTO	7:00	
Scott Twiddy	Masbeck	7:00	
Theresa A. Gomez	"	"	

DAILY CONSTRUCTION REPORT

REPORT NO. W1213

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE <u>11-2-01</u>
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
--	--------------------------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER		Bright Sun	Clear	Overcast	Rain	Snow		
REPORT PREPARED BY	Tom Lazowski	TEMP.		To 32	32-50	50-70	70-85	85 Up		
SIGNATURE	<i>Tom Lazowski</i>	WIND		Low	Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY		Dry	Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		In	Out
Carl Gulinia	MOSBECK	6:00	
KRM ADAMS	"	6:41	
TOM LAZOWSKI	"	6:35	
Ken Fischer	"	1-	
T. Merdly	"	"	
Jeffrey DeLong	"	"	
Scott Guldberg	"	2:00	
JOBJTEK	MFO	8:30	
JOBJTEK	MFO	8:30	

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

10/21/03

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-30-01	REPORT No. 24	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) - Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area):

See Weekly Construction Report

NOTICES TO CONTRACTOR (with respect to testing):

See attached Terracon site visit report No. 56011049.0041.

REQUESTS FROM CONTRACTOR (with respect to testing):

None

TESTING PERFORMED/SAMPLES COLLECTED

Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in over Rainstore underground detention system. 16 Test Results of Finished Aggregate Base fill ranging 98 to 99% compaction. Minimum acceptable result is 98%.

FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:

DAILY COMMUNICATIONS:

NAME/REPRESENTING: None

Time:

SUBJECT/COMMENTS: none

ACTION (IF NECESSARY): none

FIELD DENSITY TESTING

Report Number: 56011049.0041
Service Date: October 30, 2001

Terracon

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: October 30, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98
2. 110490008	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	9.4	133.2		

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
Rain Store Backfill							
1	East side of rain store	1	1	B.S.	4.7	136.2	99
2	East side of rain store	1	1	B.S.	7.8	135.1	98
3	South side of rain store	1	1	B.S.	7.6	135.9	98
4	South side of rain store	1	1	B.S.	9.2	136.6	99
5	West side of rain store	1	1	B.S.	3.9	135.7	98
6	West side of rain store	1	1	P.S.	6.5	136.1	99
7	North side of rain store	1	1	B.S.	5.9	135.1	98
8	North side of rain store	1	1	B.S.	6.2	135.2	98
9	East side of rain store	2	1	B.S.	5.1	135.5	98
10	East side of rain store	2	1	B.S.	5.9	134.8	98
11	South side of rain store	2	1	B.S.	7.8	136.1	99
12	South side of rain store	2	1	B.S.	9.1	136.5	99
13	West side of rain store	2	1	B.S.	8.2	137.2	99
14	West side of rain store	2	1	B.S.	7.1	136.5	99
15	North side of rain store	2	1	B.S.	8.6	136.8	99
16	North side of rain store	2	1	B.S.	5.9	135.5	98

The Terracon representative was on site to observe and test the compaction of the CA-6, crushed

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

FIELD DENSITY TESTING

Client: Joseph A. Schudt & Associates

Terracon REC 13

Project Number: 56011049

Report Number: 56011049.0041

Comments (cont'd):

limestone used as wall backfill around the rain store perimeter. Two 10-inch lifts of the CA-6 were placed around the perimeter. Compaction tests were taken using a nuclear density gauge. The tests concluded that the stone met the necessary 98% compaction specification using a standard proctor value of 138.0 pcf.

Field Test Method: ASTM D2922, ASTM D3017

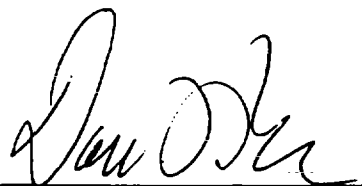
Gauge ID:

Technician: Macario Bernal

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:



Daren L. Thomas P.E.

Office Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 10-31-01	REPORT No. 25	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W <input checked="" type="checkbox"/>	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0042.
REQUESTS FROM CONTRACTOR (with respect to testing): None

TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in over Rainstore underground detention system. 4 Test Results of Finished Aggregate Base fill ranging 95 to 100% compaction. Minimum acceptable result is 98%.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS: none	
ACTION (IF NECESSARY): none	

FIELD DENSITY TESTING

Terracon

Report Number: 56011049.0042
Service Date: October 31, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: November 06, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights
Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
1	Rain Store	-1.0"	1	B.S.	6.3	131.8	96
2	Rain Store	-1.0"	1	B.S.	4.6	137.4	100
3	Rain Store	-1.0"	1	B.S.	5.0	136.0	99
4	Rain Store	-1.0"	1	B.S.	6.4	131.5	95

Datum: 0'0 = Finished Subgrade

Terracon representative observed the first lift of fill being placed and compacted over the rain store drain system and plastic layer just north of the docks. The fill consisted of CA-6 and was obtained off-site. The fill was placed in 6 inch lifts and compacted using a flat roller. Testing was performed using a nuclear density gauge. The results of the tests indicated that the compaction of the first lift of fill ranges between 95% and 100% with an average of 98% percent using a standard Proctor of 138.0 pcf. The compactor's vibratory mode was not used over the rain store system to avoid damaging the system.

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID:

Field Results Reported To: Scott with Mosbeck

Technician: Richard Hall

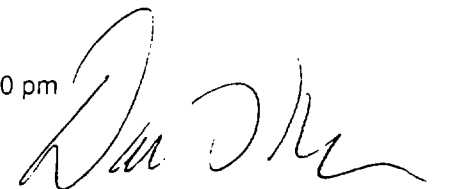
Started: 12:00 pm

Finished: 3:00 pm

Report Distribution:

(2) Joseph A. Schudt & Associates

Reviewed by:



Daren L. Thomas P.E.
Office Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 11-2-01	REPORT No. 27	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W	TH	F <input checked="" type="checkbox"/>	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0043 & 44.		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in over Rainstore underground detention system. 4 Test Results of Finished Aggregate Base fill ranging 98% compaction. Minimum acceptable result is 98%.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS: none	
ACTION (IF NECESSARY): none	

REPORT OF SITE VISIT

Terracon

Report Number: 56011049.0043
Service Date: November 1, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: November 02, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights
Project Number: 56011049

Services:

The Terracon representative was on site to observe the compaction of CA-6 placed and compacted in the rain store area. The 9-inch lift of stone was placed and then compacted using a smooth drum roller. However, because of the rain store system beneath the stone, the vibratory mode on the drum roller was not used. The stone appeared to be too dry to obtain the required compacted density of 98 percent. It was decided that the stone will be compacted and moisture conditioned with rain that is forecasted. The Terracon representative will return to the site tomorrow and test the compaction of the stone.

Technician: Macario Bernal
Report Distribution:
(2) Joseph A. Schudt & Associates

Reviewed by: 

Daren L. Thomas P.E.
Office Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

FIELD DENSITY TESTING

Terracon

Report Number: 56011049.0044
Service Date: November 2, 2001

9427 Enterprise Drive
Mokena, IL 60448
(708) 478-8868

Client: Joseph A. Schudt & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort IL 60423

Report Date: November 02, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (% compaction)
1. 110490001	ASTM D698-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		98

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (% compaction)
Rain Store Backfill							
1	Northwest quarter of rainstore	0.0'	1	B.S.	7.8	134.8	98
2	Northeast quarter of rainstore	0.0'	1	B.S.	6.9	135.5	98
3	Southeast quarter of rainstore	0.0'	1	B.S.	7.5	135.1	98
4	Southwest quarter of rainstore	0.0'	1	B.S.	7.8	135.8	98

um: 0.0' = Finished subgrade, B.S. = Backscatter

The Terracon representative was on site to test the compaction of the CA-6 placed and compacted in the rainstore area. The stone was tested using a nuclear density gauge. The test results concluded that the stone meets the 98% compaction specification using a standard Proctor value of 138.0 pcf.

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID: 18

Technician: Macario Bernal

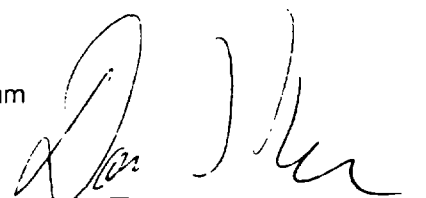
Started: 7:00am

Finished: 9:00am

Report Distribution:

Joseph A. Schudt & Associates

Reviewed by:



Daren L. Thomas P.E.
Office Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 11/5 – 11/9	Report No. 14	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 40° F to 50° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 11/8/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete.
- Concrete installation over rain store system complete.

2. On-Going Work (10/29 – 11/2)

- Stormwater retention pond will continue, attempt to complete.
- Excavation of soils in Area 3 where compaction is not sufficient.
- Excavated soil that may be generated during sub-grade preparation will be managed promptly.

3. Projected Work

- Final grading in Area 3.
- Sub-base placement in Area 3.
- Final layer of asphalt to be installed in Areas 3, 4, and 5 to begin Friday.
- Install the missing pieces of guardrail surrounding stormwater retention pond.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 11/5-11/9	REPORT No. 14	PAGE No. 7 / 17
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.
RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Complete**
- Install concrete at trench – **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install asphalt - **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete - **Complete**
- Raise existing manholes - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs - **Complete**
- Install manhole - **Complete**
- Install asphalt - **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) - **Complete**
- Excavate for manhole #'s 12, 13, 14, 15 – **Complete**
- Bore under railroad, excavate 17th Street and modify existing manhole – **Complete**
- Install 24" reinforced concrete pipe – **Complete**
- Install manhole #'s 13 and 12A, 12, 14, 15 – **Complete**
- Install sewer – **Complete**
- Backfill northwest corner – **Complete**
- Install manhole #'s 10, 11 – **Complete**
- Install Rainstore3 underground stormwater storage – **Complete**
- Backfill and install concrete over Rainstore3 – **Complete**
- Scarify/excavate existing sub-grade layer:
- Install crushed aggregate base coarse:
- Install curbs – **In Progress**
- Raise existing manhole
- Install asphalt
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer
- Install 8" PVC from manhole #9 to manhole #10 - **Complete**
- Tie-in down spouts from building - **Complete**
- Backfill
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 11/5-11/9	REPORT No. 14	PAGE No. 3/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install drain – **Complete**
- Install concrete – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Stormwater Retention Basin

- Install manholes manholes and piping - **Complete**
- Excavate retention basin - **Complete**
- Install retaining wall – **Complete**
- Install manhole #'s 6, 7 – **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence – **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence – **Complete**
- Grade retention basin – **Complete**
- Seed retention basin - **Complete**
- Install guard rail
- Install catch basin #8 & 12 inch pipe to sewer – **Complete**

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 11/5-11/9	REPORT No. 14	PAGE No. 3/5
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.



TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

No testing was performed this week		

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 12-4-01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 12/5/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☐

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☐

CC: Dr. Peter Bibby/Nufarm

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-5-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company		In	Out
Carly Meline	masbec	6:00	
Ken Fischer			
Tom HAZOWSKI	11	6:35	
KEN ADAMS	"	6:38	
Vince Rizzi	"	"	
T. Mendez	"	"	
Scott Tully	"	7:00	
TERRY DeYoung			

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-6-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company

Name / Company	Company	Time	Out
Carlo Gulina	Mosbeck	6:30	
Don Fischer			
TERRY DeYoung	Mosbeck	"	
T. Menzies		"	
Scott T. Webb	Mosbeck	7:00	
TOM LAZOWSKI	"	1:00	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 12-7-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL	See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company

Name / Company		Out
Carol L. Lurie	Masbeck	6:00
Ken Lusche	"	"
TOM LAZOWSKI	"	6:30
Vince Rizzi	"	"
J. OBATTEK	mtc	7:00
N. OBATTEK	mtc	7:00
Terry DeLong	Masbeck	7:00
Scott Twiddy	Masbeck	7:00

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-8-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919	SITE MANAGER Tom Lazowski
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OWNER Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company	IN	Out
Carol Gulina Mosbeck	6:00	
Tom LAZOWSKI	11	6:40
T. MENDEZ	" "	7:00
J. OBATEK	MTO	7:00
NOBATEK	MTO	7:00
K. Fisher	Mosbeck	7:00
Steve McYoung		7:00
Scott Turley	Mosbeck	7:00
Vince Rizzo	"	"

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 1-9-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun		Clear		Overcast		Rain	Snow
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32		32-50		50-70		70-85	85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low		Med.		High			
SITE PERSONNEL See Attached List	HUMIDITY	Dry		Mod.		Humid			

WORK COMPLETED TODAY:

Per Project Schedule ☐

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

SITE PERSONNEL

Name / Company

IN

Out

Charles Gulina	Mosbeck	6:15	
Ken Fusch	"	"	
Tom HAZOWSKI	"	6:40	
Vince Ruzzi	"	"	
J. OBATEK	MTO	7:00	
N. OBATEK	MTO	7:00	
T. Mundy	Thalrel	7:00	
Ferry Dekaney	"	"	



WEEKLY CONSTRUCTION REPORT

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	Week of: 11/12 – 11/16	Report No. 15	Page No. 1/5
PROJECT: Phase II Removal Action/ Site Improvements				
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER CONDITIONS: Temperatures in 40° F to 50° F		
REPORT PREPARED BY:	Rae Mindock	RMT (312) 575-0200		

PROJECT STATUS:

Attendance for Weekly Meeting 11/15/01: Peter Bibby (Nufarm), Greg Jones (Nufarm), Tom Siljkovic (Nufarm), Rae Mindock (RMT), Tom Lazowski (Mosbeck), Matt Anderson (Schudt), Terry Hoffmann (Schudt)

1. Previous Work and Activities

- Asphalt installation of Areas 1 and 2 complete.
- Concrete installation over rain store system complete.
- Grading in Area 3 complete.

2. On-Going Work

- Asphalt installation will be conducted on Thursday and finishing on Friday in Areas 3, 4, and 5.
- Asphalt installation on 17th Street will be conducted on Thursday and Friday as well.
- The sidewalk on the North side of 17th Street will be finished this week.

3. Projected Work

- Finish the guardrail around stormwater retention pond
- Install fence around new warehouse the week of November 26th.
- Begin unfinished items on punch list.

4. Problems/Critical Areas

- There are no problems identified.
- Scheduling between multiple consultants/contractors on-site work efforts is critical. Good communication throughout the project and participation in the weekly meetings should minimize scheduling conflicts.

5. Health & Safety Issues

- Extreme heat is a potential safety issue. Proposed that if temperature exceeded 80°, construction workers would not be required to wear hard-hats – if no overhead work was being conducted in the immediate area. Nufarm safety procedures require hard hat and safety shoes to be worn on site.
- Smoking will only be allowed in the designated smoking area at the facility entrance.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 11/12-11/16	REPORT No. 15	PAGE No. /
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

CONSULTANT/CONTRACTOR'S PERSONNEL (include subcontractors):

See Daily Construction Reports for Mosbeck Industrial Equipment Personnel.
RMT on-site Thursday: Rae Mindock. Schudt on-site on a daily basis: Primarily Terry Hoffmann, with visits from Matt Anderson. Terracon personnel were on site as required.

DESCRIPTION OF WORK IN PROGRESS (by work area):

Based on schedule provided by Mosbeck – will be revised as necessary. Figure with construction areas is attached.

Area 1 – South of Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install trench – **Complete**
- Install concrete at trench – **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Area 2 – South of Finished Goods Warehouse

- Scarify/excavate existing sub-grade layer - **Complete**
- Install concrete – **Complete**
- Raise existing manholes – **Complete**
- Install crushed aggregate base coarse - **Complete**
- Install curbs – **Complete**
- Install manhole – **Complete**
- Install asphalt – **Complete**

Area 3 – North of Finished Goods Warehouse

- Remove fence (north) – **Complete**
- Excavate for manhole #'s 12, 13, 14, 15 – **Complete**
- Bore under railroad, excavate 17th Street and modify existing manhole – **Complete**
- Install 24" reinforced concrete pipe – **Complete**
- Install manhole #'s 13 and 12A, 12, 14, 15 – **Complete**
- Install sewer – **Complete**
- Backfill northwest corner – **Complete**
- Install manhole #'s 10, 11 – **Complete**
- Install Rainstore3 underground stormwater storage – **Complete**
- Backfill and install concrete over Rainstore3 – **Complete**
- Scarify/excavate existing sub-grade layer – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Raise existing manhole – **Complete**
- Install asphalt – **In Progress**
- Install fence (north)
- Remove fence (west) - **Complete**
- Scarify/excavate existing sub-grade layer – **Complete**
- Install 8" PVC from manhole #9 to manhole #10 – **Complete**
- Tie-in down spouts from building – **Complete**
- Backfill – **Complete**
- Reinstall fence (west)

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 11/12-11/16	REPORT No. 15	PAGE No. /
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

Area 4 – North of Manufacturing/Raw Materials Warehouse

- Scarify/excavate existing sub-grade layer – **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install drain – **Complete**
- Install concrete – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Area 5 – Railroad Unloading Area

- Scarify/excavate existing sub-grade layer - **Complete**
- Install crushed aggregate base coarse – **Complete**
- Install curbs – **Complete**
- Install asphalt – **Complete**

Stormwater Retention Basin

- Install manholes manholes and piping – **Complete**
- Excavate retention basin – **Complete**
- Install retaining wall – **Complete**
- Install manhole #'s 6, 7 – **Complete**
- Install 12" reinforced concrete pipe to pond - **Complete**
- Remove fence – **Complete**
- Remove manhole # 5/install new manhole #5 - **Complete**
- Install 24" reinforced concrete pipe to manhole #5 - **Complete**
- Reinstall fence – **Complete**
- Grade retention basin – **Complete**
- Seed retention basin – **Complete**
- Install guard rail
- Install catch basin #8 & 12 inch pipe to sewer – **Complete**

Other:

- Construction of the liquid storage area expansion and maintenance building is continuing.

PROJECT No. 4962.01	CLIENT: Nufarm	DATE: 11/12-11/16	REPORT No. 15	PAGE No. /
PROJECT: Riverdale Phase II Removal Action/Site Improvements				

MATERIALS OR EQUIPMENT DELIVERED:

Equipment on-site includes Hitachi excavator, Case backhoe and skid loader. This equipment is anticipated to remain on site for duration of project. Refer to Resident's Weekly Report completed by Mosbeck.



TESTING PERFORMED/SAMPLES COLLECTED:

Terracon will be on site Monday/Wednesday/Friday as required.

11/13	Field Density Tests	Tests do not meet acceptable limits. These areas will be observed more closely for future testing.
11/14	Field Density Tests	Acceptable results for tests.
11/15	Field Density Tests	Acceptable results for tests.

FIELD PROBLEMS:

There are no field problems to report.

Received by: 	Date: 12/4/01
Matt Anderson, Joseph A. Schudt or JAS Representative	
Approved by: 	Date: 12/5/01
Rae Mindock, RMT	

Daily Construction Reports to be attached to Weekly Construction Report ☒

CQA Report to be attached to Weekly Construction Report (as required per days of testing) ☒

CC: Dr. Peter Bibby/Nufarm

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 11-13-01	REPORT No. 28	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T <input checked="" type="checkbox"/>	W	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0045 & Letter		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in Areas 3, & 4. Stone not ready for testing.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK: Letter addressing the specific gravity Big "D" value for asphalt binder placed in Areas 4 & 5 that did not meet the minimum density. Little change occurred as the Theoretical Big "D" and actual Laboratory value were nearly the same, 2.55 vs. 2.571. Those area that tested low will be observed to verify good density for surface. No other action.		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS: none	
ACTION (IF NECESSARY): none	

REPORT OF WORK CANCELLED

Report Number 56011049 0045

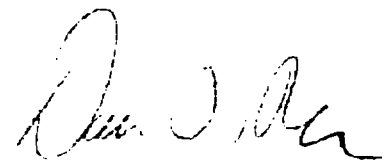
Service Date: November 13, 2001

Terracon3-27 Entenried Drive
Mokena, IL 60449
(708) 478-8810**Client:** Joseph A. Schuch & Associates
Attn: Matt Anderson
16350 South Harlem Avenue
Frankfort IL 60423**Report Date:** November 19, 2001**Project:** Riverdale Chemical Pavements
220 E 17th Street
Chicago Heights**Project Number:** 56011049**Services:**

Terracon representative arrived on-site and was informed that the CA-6 aggregate basecourse stone was not ready for testing. Terracon representative did, however, take moisture tests on the CA-6 to establish that the moisture appeared to be too low and the stone needs water added.

Field Results Reported To: Matt Anderson**Technician:** Joshua Wasmundt**Started:** 12:00 pm**Finished:** 2:30 pm**Report Distribution:**

Joseph A. Schuch & Associates

Reviewed by:Darren L. Thomas, P.E.
Office Manager

The tests were performed in general accordance with applicable ASTM, AA5M16, or UIC test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced or distributed without the written approval of Terracon. Test results transmitted herein are only applicable to the portion samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical material.

November 13, 2001

Terracon

9427 Enterprise Dr
Mokena, IL 60448
(708) 478-8868 Fax: (708) 478-8867

Joseph A. Schudt & Associates
13950 South Harlem Avenue
Frankfort, IL 60423

Attn: Matthew C. Anderson

**RE: Area 4 and 5 Parking Lot Asphalt Testing
Riverdale Chemical Pavements
Chicago Heights, Illinois
Terracon No. 56011049**

Dear Mr. Anderson:

Pursuant to your request, representatives of Terracon, Inc. are performing materials observation and testing services for the referenced project. Recently, our representative observed and tested binder course asphaltic cement concrete placed for the Area 4 and 5 parking lots. During testing, our representatives obtained low compaction test results in three areas. The low results were discussed with representatives of the contractor and JAS in the field at the time of testing, and were also reported in our daily field report from October 19 that was previously transmitted to you. This letter discusses the original field compaction test results, results of subsequent laboratory testing, and our observations and conclusions regarding the compaction of these areas based on the new laboratory test data.

Asphaltic Cement Concrete Field Testing

On October 19, 2001, a representative of Terracon performed in-place density tests on a 3-inch thick layer of recycled binder material placed in Areas 4 and 5. Tests were performed with a nuclear density gauge. A total of 16 tests were performed. A field Big "D" value of 2.55 was used to determine the maximum theoretical density of the asphalt binder material. The Big "D" value was provided to our representative by the contractor in the field. The compaction results were reported to the contractor and to representatives of JAS. Based on our test results, which originally did not include a thin lift correction, the average percent compaction value was about 92 percent of the maximum theoretical density, with tests ranging from 85 to 98 percent. For reference, IDOT specifies an average of 92 to 96 percent of the maximum theoretical Marshall density, with no individual tests below 91 percent. The temperature of the asphalt was also periodically monitored during placement. The temperature of the mix averaged about 280 degrees. Our representative also collected a hot sample of the material from the trucks during placement for subsequent laboratory testing.

Asphaltic Cement Concrete Laboratory Testing

Because of the low field results at in three areas (Test Nos. 2, 3, 7, 8, 15 and 16), we were requested to perform a specific gravity (Big "D") test on the hot sample our representative obtained in the field. The results of the specific gravity test indicated the material's Big "D" is 2.571.

Using the Big "D" of 2.571 obtained in our laboratory, and applying a thin lift correction to compensate for the lower density aggregate base course below the asphalt, the compaction ranges from 84 to 98 percent, with an average of 92 percent.

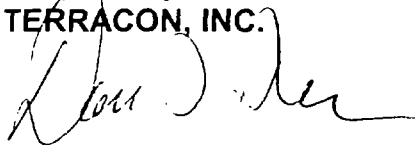
Observations and Conclusions

Based on the field and laboratory test results, in our opinion, the binder appears to have been satisfactorily compacted, with the exception of three areas where test indicate the binder is lower in density than allowed by the project specifications. It is possible that a material variation occurred at the area where low test results were obtained. Also, please note that densities obtained by the nuclear method are only estimates of the actual density. Nuclear testing is usually sufficient to determine that compaction meets project specifications. In situations where actual field densities are required, then coring followed by laboratory testing for density is needed.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this letter, or if we may be of further service to you in any way, please do not hesitate to contact us.

Respectfully,

TERRACON, INC.



Daren L. Thomas, P.E.
Office Manager

Attachments: Summary of Field Density Test Results on Asphaltic Concrete
Maximum Specific Gravity Test Results

Copies: Addressee (2)

Maximum Specific Gravity Gmm (D)

PROJECT: Riverdale Chemical, Chicago Heights, IL.
PROJECT NUMBER: 56011049
MATERIAL TYPE: Binder
Source: Callahan Paving (On-Site Sample)

DATE: 11/12/01
DATE SAMPLED: 10/19/01

Gmm (D)	Sample #1	Sample #2
1. Container w/o lid + sample	2834.4	2633.3
2. Empty container wgt. w/o lid	1720.5	1545.8
3. Sample (A= 1-2)	1113.9	1087.5
4. Wgt. Of container, lid and water (D)	5487.8	5409.7
5. Wgt. Of container, lid, water and sample (E)	6169.1	6073.4
6. A + D - E (F)		
7. (A) divided by (F) =		
Maximum Specific Gravity: $\frac{A}{A+D-E}$	2.575	2.566
Average Maximum Specific Gravity Gmm (D)	2.571	

Sample Collected BY: D. Frieling
Tested By: HY/GQ
Date Tested: 11/10/01
Reviewed By: Daren L. Thomas, P.E.

Summary of Field Density Test Results on Asphaltic Concrete ASTM D2950

9427 Enterprise Drive
Mokena IL 60448
(708) 478-8868

Client Name:	<u>Joseph A. Schudt & Associates</u>	Project Number:	<u>56011049</u>	Date:	<u>10/19/01</u>
Address:	<u>Frankfort, IL</u>	Test method for			
		Laboratory Density:	<u>ASTM D-2041</u>		
Project Name:	<u>Riverdale Chemical Plant Pavements</u>	Mix Type:	<u>Binder</u>		
Location:	<u>Chicago Heights, IL</u>	Field Technician:	<u>DF</u>		
Comments:	<u>Binder course for Area 4 and 5</u>	Gauge ID:		Mode:	<u>Backscat.</u>
	<u>Test results using Big 'D' of 2.55</u>	Reviewed by:	<u>DLT</u>		

Test No.	Date	Location	Course	Design Thickness, inches	Field Density, pcf	Lab Density, pcf	% Lab Density	With Thin Lift Correction
1	10/19/01	20' east x 20' south of the NW corner of area 5	Binder	3.0	151.7	159.1	95	96
2	10/19/01	25' east x 40' south of NW corner of area 5	Binder	3.0	135.7	159.1	85	85
3	10/19/01	25' east by 45' south of NW corner of area 5	Binder	3.0	137.2	159.1	86	86
4	10/19/01	35' east x 45' south of NW corner of area 5	Binder	3.0	152.7	159.1	96	96
5	10/19/01	10' east x 45' south of NE corner of area 5	Binder	3.0	149.0	159.1	94	94
6	10/19/01	15' west x 15' south of NE corner of area 5	Binder	3.0	149.7	159.1	94	94
7	10/19/01	5' west x 15' south of NE corner of area 5	Binder	3.0	141.6	159.1	89	89
8	10/19/01	20' North x 40' East of S.W. corner of Area 1	Binder	3.0	140.5	159.1	88	88
9	10/19/01	10' east x 10' north of the SW corner of area 4	Binder	3.0	148.2	159.1	93	93
10	10/19/01	15' east x 5' north of the SW corner of area 4	Binder	3.0	153.6	159.1	97	97
11	10/19/01	5' west x 5' north of the SE corner of area 4	Binder	3.0	151.7	159.1	95	96
12	10/19/01	5' west x 5' south of NE corner of area 4	Binder	3.0	149.2	159.1	94	94
13	10/19/01	5' east by 5' south of NW corner of area 4	Binder	3.0	153.1	159.1	96	97
14	10/19/01	15' east x 10' south of NW corner of area 4	Binder	3.0	155.6	159.1	98	98
15	10/19/01	40' east x 50' south of NW corner of area 4	Binder	3.0	135.2	159.1	85	85
16	10/19/01	10' east x 50' south of NW corner of area 4	Binder	3.0	138.0	159.1	87	87
		Average of Test Results						92

Summary of Field Density Test Results on Asphaltic Concrete ASTM D2950

9427 Enterprise Drive
Mokena IL 60448
(708) 478-8868

Client Name:	Joseph A. Schudt & Associates	Project Number:	56011049	Date:	10/19/01
Address:	Frankfort, IL	Test method for			
		Laboratory Density:	ASTM D-2041		
Project Name:	Riverdale Chemical Plant Pavements	Mix Type:	Binder		
Location:	Chicago Heights, IL	Field Technician:	DF		
Comments:	Binder course for Area 4 and 5	Gauge ID:		Mode:	Backscat.
	Test results using Big 'D' of 2.571	Reviewed by:	DLT		

Test No	Date	Location	Course	Design Thickness inches	Field Density pcf	Lab Density pcf	% Lab Density	With Thin Lift Correction
1	10/19/01	20' east x 20' south of the NW corner of area 5	Binder	3.0	151.7	160.2	95	95
2	10/19/01	25' east x 40' south of NW corner of area 5	Binder	3.0	135.7	160.2	85	85
3	10/19/01	25' east by 45' south of NW corner of area 5	Binder	3.0	137.2	160.2	86	86
4	10/19/01	35' east x 45' south of NW corner of area 5	Binder	3.0	152.7	160.2	95	96
5	10/19/01	10' east x 45' south of NE corner of area 5	Binder	3.0	149.0	160.2	93	93
6	10/19/01	15' west x 15' south of NE corner of area 5	Binder	3.0	149.7	160.2	93	94
7	10/19/01	5' west x 15' south of NE corner of area 5	Binder	3.0	141.6	160.2	88	89
8	10/19/01	20' North x 40' East of S.W. corner of Area 1	Binder	3.0	140.5	160.2	88	88
9	10/19/01	10' east x 10' north of the SW corner of area 4	Binder	3.0	148.2	160.2	93	93
10	10/19/01	15' east x 5' north of the SW corner of area 4	Binder	3.0	153.6	160.2	96	96
11	10/19/01	5' west x 5' north of the SE corner of area 4	Binder	3.0	151.7	160.2	95	95
12	10/19/01	5' west x 5' south of NE corner of area 4	Binder	3.0	149.2	160.2	93	93
13	10/19/01	5' east by 5' south of NW corner of area 4	Binder	3.0	153.1	160.2	96	96
14	10/19/01	15' east x 10' south of NW corner of area 4	Binder	3.0	155.6	160.2	97	98
15	10/19/01	40' east x 50' south of NW corner of area 4	Binder	3.0	135.2	160.2	84	84
16	10/19/01	10' east x 50' south of NW corner of area 4	Binder	3.0	138.0	160.2	86	86
		Average of Test Results						92

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 11-14-01	REPORT No. 29	PAGE No. 1					
PROJECT: Phase II Remedial Action/Site Improvements		DAY	S	M	T	W <input checked="" type="checkbox"/>	TH	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:							
REPORT PREPARED BY: Matthew Anderson		TEMP:							
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:							
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:							

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0046		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2922, ASTM D3017	% Compaction (Proctor)	Finished Aggregate Base in Areas 3, & 4. 22 locations ranging from 98 to 100+% density.
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS: none	
ACTION (IF NECESSARY): none	

FIELD DENSITY TESTING

Report Number: 56011049 0046

Service Date: November 14, 2001

Terracon

5427 Enterprise Drive
Mokena, IL 60449
(815) 476-8967

Client: Joseph A. Schuch & Associates
Attn: Matt Anderson
19350 South Harlem Avenue
Frankfort, IL 60423

Report Date: November 15, 2001
Project: Riverdale Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description and Classification	Lab Test Data		Project Requirements	
			Optimum Water Content (%)	Max. Lab Dry Unit Weight (pcf)	Water Content Range (%)	Minimum Dry Unit Weight (pcf compaction)
1 110490001	ASTM D598-91	Gray sandy gravel, (CA-6) crushed limestone	7.7	138.0		99

Field Test Data

Test No.	Test Location	Lift/Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (pcf compaction)
1	CA-6 for road and parking at northwest side of site	Grade	1	0	6.7	138.3	100
2	CA-6 for road and parking at northwest side of site	Grade	1	0	6.3	139.1	100+
3	CA-6 for road and parking at northwest side of site	Grade	1	0	6.8	135.8	98
4	CA-6 for road and parking at northwest side of site	Grade	1	0	6.9	140.3	100+
5	CA-6 for road and parking at northwest side of site	Grade	1	0	6.3	140.6	100+
6	CA-6 for road and parking at northwest side of site	Grade	1	0	6.7	135.2	96
7	CA-6 for road and parking at northwest side of site	Grade	1	0	7.0	140.6	100+
8	CA-6 for road and parking at northwest side of site	Grade	1	0	5.0	139.3	100+
9	CA-6 for road and parking at northwest side of site	Grade	1	0	7.1	142.3	100+
10	CA-6 for road and parking at northwest side of site	Grade	1	0	5.4	136.4	99

The tests were performed in general accordance with approved ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client. It may not be reproduced or used in any way without the written approval of Terracon. Test results are limited here only to those applicable to the material samples tested at the location(s) referenced, and are not necessarily indicative of the properties of other apparent similar or identical material.

FIELD DENSITY TESTING

Client: Joseph A. Schudt & Associates

Terracon

Project Number: 56011049

Report Number: 56011049.0001

Field Test Data

Test No.	Test Location	Lift/ Elevation	Mat. No.	Probe Depth (inches)	Water Content (%)	Dry Unit Weight (pcf)	Dry Unit Weight (pcf) - Temperature
11	CA-6 for road and parking at northwest side of site	Grade	1	0	7.1	138.1	100
12	CA-6 for road and parking at northwest side of site	Grade	1	0	7.1	139.5	100+
13	CA-6 for road and parking at northwest side of site	Grade	1	0	4.7	138.4	100
14	CA-6 for road and parking at northwest side of site	Grade	1	0	8.8	137.2	99
15	CA-6 for road and parking at northwest side of site	Grade	1	0	6.0	139.7	100+
16	CA-6 for road and parking at northwest side of site	Grade	1	0	6.4	135.5	98
17	CA-6 for road and parking at northwest side of site	Grade	1	0	5.3	139.8	100+
18	CA-6 for road and parking at northwest side of site	Grade	1	0	5.1	137.5	100
19	CA-6 for road and parking at northwest side of site	Grade	1	0	4.6	136.6	99
20	CA-6 for road and parking at northwest side of site	Grade	1	0	7.4	139.1	100+
21	CA-6 for road and parking at northwest side of site	Grade	1	0	7.6	136.2	99
22	CA-6 for road and parking at northwest side of site	Grade	1	0	6.7	137.2	99

Terracon representative tested CA-6 aggregate base course for compaction for northwest parking lot and road. The CA-6 was compacted with a vibratory roller and tested with a nuclear density gauge. A total of 22 tests were performed. The results of the tests indicated that the CA-6 meets the compaction specifications of 98%, using a Proctor value of 138.0 pcf.

Field Test Method: ASTM D2922, ASTM D3017

Gauge ID: #16

Field Results Reported To: Tom Ludzowski

Technician: Joshua Wasimundt

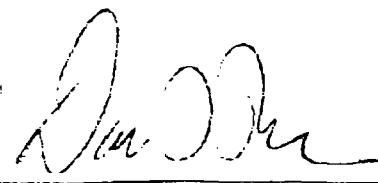
Started: 5:00 am

Finished: 6:30 pm

Report Distribution:

1- Joseph A. Schudt & Associates

Reviewed by:



Daron L. Thomas P.E.

Office Manager

All tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client and is not to be used or relied upon without the written approval of Terracon. Test results transmitted herein are only applicable to the material sampled and tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CQA CONSTRUCTION REPORT

(To be completed per day of testing)

PROJECT No. 4962.01	CLIENT: Nufarm Riverdale Chemical Site	DATE: 11-15-01	REPORT No. 30	PAGE No. 1				
PROJECT: Phase II Remedial Action/Site Improvements	DAY	S	M	T	W	TH <input checked="" type="checkbox"/>	F	S
CONSULTANTS/CONTRACTORS: Mosbeck (General) – Tom Lazowski (708) 333-6919 Joseph A. Schudt (CQA) - Matt Anderson (708) 720-1000 Terracon (CQA Test) - Daren Thomas (708) 478-8868		WEATHER:						
REPORT PREPARED BY: Matthew Anderson		TEMP:						
CQA Engineer: Matt Anderson, Joseph A. Schudt		WIND:						
TIME ON-SITE:	TIME LEFT SITE:	PRECIPITATION:						

DESCRIPTION OF WORK IN PROGRESS (by work area): See Weekly Construction Report		
NOTICES TO CONTRACTOR (with respect to testing): See attached Terracon site visit report No. 56011049.0047		
REQUESTS FROM CONTRACTOR (with respect to testing): None		
TESTING PERFORMED/SAMPLES COLLECTED		
Field Density Tests *ASTM D2950, ASTM D2726	% Compaction	3" Asphalt Binder in Areas 3 & 4 23 Test Results of Asphalt Binder ranging 91.0 to 97%+ compaction. Average = 93% Minimum acceptable average result is 92%, with no minimum less than 91%
FIELD PROBLEMS AND NON-CONFORMING MATERIALS OR WORK:		

DAILY COMMUNICATIONS:	
NAME/REPRESENTING: None	Time:
SUBJECT/COMMENTS: none	
ACTION (IF NECESSARY): none	

HMA FIELD DENSITY TESTING

Report Number: 56011049-0047

Service Date: November 15, 2001

Terracon

1407 E. Randolph Blvd.

Chicago, IL 60648

Phone: 478-5466

Client: Joseph A. Sordani & Associates
19350 South Harlem Avenue
Franklin Park, IL 60126

Report Date: November 10, 2001

Project: Riverside Chemical Pavements
220 E. 17th Street
Chicago Heights

Project Number: 56011049

Material Information

Material No.	Laboratory Test Method	Description	Lab Test Date	Project Requirements		
			Reference Density (pcf)	Minimum Thickness (inches)	Minimum Compaction (%)	Maximum Compaction (%)
1		Binder	158.2	3.00	92	98

Field Test Data

Test No.	Location	Pavement Lift	Mat. No.	Nuclear Density (pcf)	Comp (%)
1	Area 3 binder	3"-8"	1	146.0	92
2	Area 3 binder	3"-4"	1	146.2	92
3	Area 3 binder	3"-4"	1	144.9	92
4	Area 3 binder	3"-4"	1	144.1	91
5	Area 3 binder	3"-4"	1	147.4	93
6	Area 3 binder	3"-4"	1	146.6	93
7	Area 3 binder	3"-4"	1	149.1	94
8	Area 3 binder	3"-4"	1	150.4	95
9	Area 3 binder	3"-4"	1	148.2	94
10	Area 3 binder	3"-4"	1	147.7	93
11	Area 3 binder	3"-4"	1	146.1	91
12	Area 3 binder	3"-4"	1	146.4	93
13	Area 3 binder	3"-4"	1	146.1	92
14	Area 3 binder	3"-4"	1	146.7	94
15	Area 3 binder	3"-4"	1	146.2	94
16	Area 3 binder	3"-4"	1	146.2	92
17	Area 3 binder	3"-4"	1	149.0	94
18	Area 3 binder	3"-4"	1	149.3	94
19	Area 3 binder	3"-4"	1	150.1	95

This report was prepared by Terracon based on data supplied by STW, AASH TO, or other instruments. This report is prepared exclusively on the basis of the data supplied by the client. Terracon does not warrant the accuracy of the data without the written approval of the client. The data presented herein are only applicable to the project and are not to be used for any other purpose. The data are not to be used for any other purpose and are not to be used for any other purpose.

FIELD DENSITY TESTING**Terracon**

Client: Joseph A. Smith & Associates

Project Number: 660-1049

Report Number: 660-1049-0047

Field Test Data

Test No.	Location	Pavement Lift	Mat. No.	Nuclear Density (pcf)	Comp (%)
20	Area 3 binder	3"-4"	1	146.8	93
21	Area 3 binder	3"-4"	1	149.6	95
22	Area 3 binder	3"-4"	1	153.1	97
23	Area 3 binder	3"-4"	1	149.2	94

Terracon representative visited site to observe and test the placement of 3-4 inches of binder course asphalt in the north parking lot (Area 3) near 17th street. Twenty-three tests were taken using a nuclear density gauge. A Big "D" of 2.535 was supplied by the contractor, and a Marshal value of 158.2 was used. Temperature tests were taken periodically with an average reading of 283 degrees.

The tests concluded that the asphalt was compacted to an average exceeding 93% using the Marshal value of 158.2 pcf, with no single test result below 91%.

Field Test Method: ASTM D2950, ASTM D2726

Gauge ID: 3716

Field Test Unit Reported For: Matt Anderson

Technician: Rene Nunez

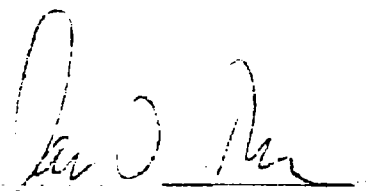
Started: 8:00 am

Finished: 12:00 pm

Report Distribution:

Joseph A. Smith & Associates

Reviewed by:


 Darren L. Thomas P.E.
 Office Manager

The tests were performed in general accordance with applicable ASTM/AASHTO or DOT test methods. This report is exclusively for the use of the client indicated above and may not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the particular material tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

DAILY CONSTRUCTION REPORT

REPORT NO. 1151001

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-12-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919 SITE MANAGER Tom Lazowski

OWNER	Nufarm	DAY	S	<input checked="" type="checkbox"/>	T	W	TH	F	S
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow		
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-30	50-70	70-85	85 Up		
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☒

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company		in	out
TEERY DeYoung	Mosbeck	7:00	
J. O'BATTEK	mtc	7:00	
N. O'BATTEK	mtc	7:00	
T. M. M. M.	Mosbeck	7:00	
TOM LAZOWSKI	11	6:30	
Scott Twiddy	Mosbeck	7:00	
CALLAGHAN CREW	GRADING	6:30	4:30

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-13-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S		
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow				
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up				
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High						
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid						

WORK COMPLETED TODAY:

Per Project Schedule ☒

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	COMP.	IN	OUT
TOM LAZOWSKI	MOSBECK	6:45	
T. MEADE	"	6:30	
TERRY DeYoung	"	"	
Scott Twidala	"	7:00	
CALLAGHAN	CREW GRADING	6:30	- 4:30

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-14-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR	Mosbeck (708) 333-6919	SITE MANAGER	Tom Lazowski
------------	------------------------	--------------	--------------

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow		
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up		
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High				
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid				

WORK COMPLETED TODAY:

Per Project Schedule ☒

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	COMPANY	IN	OUT
TOM LAZOWSKI	MOSBECK	6:45	
T. Miller	" "	700	
KEE & DAKIN	" "	" "	
J. OBAYTER	M&O	700	
N. OBAYTER	M&O	700	
V. RIZ	Mosbeck	700	
CALLAGHAN CREW GRADING		6:30 - 4:30	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO: 496201	Riverdale Chemical Company	DATE 11-15-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919

SITE MANAGER

Tom Lazowski

OWNER	Nufarm	DAY	S	M	T	W	TH	F	S	
LOCATION	Riverdale 220 East 17 th Street Chicago Heights, IL	WEATHER	Bright Sun	Clear	Overcast	Rain	Snow			
REPORT PREPARED BY	Tom Lazowski	TEMP.	To 32	32-50	50-70	70-85	85 Up			
SIGNATURE	<i>Tom Lazowski</i>	WIND	Low	Med.	High					
SITE PERSONNEL	See Attached List	HUMIDITY	Dry	Mod.	Humid					

WORK COMPLETED TODAY:

Per Project Schedule ☒

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	COMPANY	IN	OUT
Tom LAZOWSKI	MDSBECK	6:30	
Sam Matwinski	"	6:40	
TERRY DeKoning	"	6:50	
NEIL OBAJTEK	M+O	7:00	
J. OBAJTEK	M+O	7:00	
G. TOTEBEN	M+O	7:00	
M. Campbell	M+O	7:00	
T. M. M. M.	M+O	7:00	
CALLAGHAN CREW ASPHALT		6:00 - 5:00	

DAILY CONSTRUCTION REPORT

REPORT NO. _____

PROJECT NO.: 4962.01	Riverdale Chemical Company	DATE 11-16-01
PROJECT: Phase II RA/Site Improvements		
RMT PROJECT MANAGER: Rae Mindock (312) 575-0200		
NUFARM REPRESENTATIVE: Peter Bibby		
CQA ENGINEER: Matt Anderson, Joseph A. Schudt & Assoc. (708) 720-1000		
CQA TESTING FIRM REPRESENTATIVE: Daren Thomas, Terracon (708) 478-8868		
OTHER:		

CONTRACTOR Mosbeck (708) 333-6919		SITE MANAGER Tom Lazowski	
OWNER Nufarm	LOCATION Riverdale 220 East 17 th Street Chicago Heights, IL	DAY	S M T W TH F S
REPORT PREPARED BY Tom Lazowski	TEMP.	To 32	32-50 50-70 70-85 85 Up
SIGNATURE <i>Tom Lazowski</i>	WIND	Low	Med. High
SITE PERSONNEL See Attached List	HUMIDITY	Dry	Mod. Humid

WORK COMPLETED TODAY:

Per Project Schedule ☒

PROGRESS SCHEDULE COMMENTS:

REFER TO CQA REPORT: ☐

CC: Rae Mindock/RMT

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SITE PERSONNEL

Name / Company	COMPANY	IN	OUT
TOM LAZOWSKI	MOSBECK	6:35	
T. Maly	"	7"	
J OBATTEK	M&O	7:00	
Stan Berens	M&O	7:00	
Nel Obattek	"	"	
Mike Campbell	M&O	7:00	
George Poter	M&O	7:00	
Ed Jensen	M&O	7:00	
Bill Wyness	M&O	7:00	
CALLAGHAN CREW	ASPHALT	6:00-5:00	

Appendix C

Modifications to Design

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Figure 3-1 – Phase 2 RA Plan
APPENDIX C



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*Integrated
Environmental
Solutions*

222 South Riverside Plaza
Suite 820
Chicago, IL 60606
Telephone: 312-575-0200
Fax: 312-575-0300

October 18, 2001

Ms. Callie Bolattino
On Scene Coordinator
United States Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Subject: Riverdale Chemical Site, 05K2
Chicago Heights, IL

Dear Callie:

RMT Inc. (RMT), on behalf of Riverdale Chemical Company (Riverdale), is submitting a request for modification to the Phase II Remedial Action (RA) Work Plan per the Administrative Order on Consent (AOC), Section XVI, Modifications. The modifications were discussed during your last site visit and include improvements such as increasing the amount of heavy-duty pavement (vs. light duty pavement) and increasing the area of concrete paving. The modifications have been incorporated in Figure 3-1 of the Phase II RA Work Plan, which is included with this submittal.

Please contact me at 312-575-0200 with questions or comments.

Sincerely,

RMT, Inc.

A handwritten signature in cursive script, appearing to read 'Rae'.

Rae Mindock
Senior Project Manager

cc: Ms. Karen Peaceman/USEPA
Dr. Peter Bibby/Riverdale
Mr. Todd Wiener/MWE

Appendix D

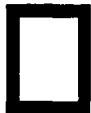
Deed Restriction Information

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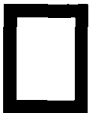
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Appendix D - Figure 1 – Residual Contamination; RI & RA Sampling Locations



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